

U.S. Will Not Use Facilities In Australia for MX Testing

Compiled by Our Staff From Dispatches

WASHINGTON — U.S. Secretary of State George Shultz and Prime Minister Bob Hawke of Australia announced Wednesday that the United States will not use Australian support facilities in tests of MX missiles in the South Pacific.

The development came just one day after the United States angrily canceled naval maneuvers with Australia and New Zealand. Those exercises were to be conducted next month under the 34-year-old ANZUS mutual defense pact among the three countries.

Mr. Shultz said the Australian prime minister "raised the community concerns in Australia" about a previous government decision to provide refueling and food facilities for U.S. planes. Those aircraft were to monitor splash-down tests of the MX missile in the Gulf of Vietnam, which lies in international waters between Australia and New Zealand.

"The U.S. side brought out that there are a variety of ways to monitor an MX test and the monitoring effort need not involve the provision of Australian support," Mr. Shultz said. "A decision has been made by the United States to conduct the MX tests without the use of Australian support arrangements."

Mr. Hawke, during a brief news conference with Mr. Shultz, said that while he expressed Australian concerns about providing support facilities for the MX tests, the Reagan administration already had made its decision to monitor the tests in another fashion. Neither official defined what other ways would be used. Pentagon officials have said that the tests are scheduled for late summer.

The United States called off the naval maneuvers when New Zealand refused port access to a U.S. destroyer on the grounds that it might carry nuclear weapons.

Mr. Hawke said Tuesday night on an official visit to Washington, met several top officials on Wednesday and is to see President Ronald Reagan on Thursday.

In New Zealand on Wednesday, Prime Minister David Lange dismissed Reagan administration criticism of his government's decision to ban visits by U.S. warships.

Questioned by Washington reports of possible U.S. retaliation against the ban, which caused the cancellation of an ANZUS naval exercise, Mr. Lange said he was confident that the United States would not use trade sanctions against New Zealand.

"I regard it as unacceptable that another country should by threat or coercion try to change a policy which has been embraced by the New Zealand people," he said at a press conference.

New Zealand and Australia have tried to ease tension in the alliance by going ahead with a joint naval exercise that had been planned as a curtain raiser to the canceled maneuvers with the United States.

Meanwhile, the United States will not take economic sanctions against New Zealand, a senior offi-

cial in the State Department said Wednesday.

"New Zealand is still a friend," said the official, who requested anonymity. "If New Zealand does not want to be an ally, it does not mean it is an enemy."

The U.S. reaction to the ban, the official said, was "not to increase the damage, but limit the damage."

(UPI, Reuters, AFP)

■ Australian Reaction

Anti-nuclear leaders on Wednesday declared a victory after Mr. Hawke decided to pull out of an agreement to help U.S. tests of the MX missile. The Associated Press reported from Sydney.

But conservative politicians and newspaper editorials expressed concern that the reversal threatened to scuttle the already imperiled ANZUS alliance.

Mr. Hawke abandoned his MX offer after senior officials warned he might not have the votes to get it approved in a party caucus and would suffer a humiliating defeat.

Anti-nuclear groups, leftist politicians, trade union leaders and others protested the missile test help, saying the MX was "a first strike" weapon that poses a threat to world peace.

The Nuclear Disarmament Party said Mr. Hawke's reversal was a victory for the peace movement and demonstrated that many Australians were unhappy about the country's growing involvement in the nuclear arms race.



U.S. Secretary of State George P. Shultz, left, talking with Australian Prime Minister B. Hawke before they announced Australia would not provide support for MX missile test

Ethiopia Assails UN Agency on Aid for Sudan

By Iain Guesz
International Herald Tribune

GENEVA — The Ethiopian government threatened Wednesday to take measures against the office of the UN High Commissioner for Refugees, alleging that the agency is favoring Sudan at the expense of Ethiopia in distributing emergency aid.

The Ethiopian ambassador to the United Nations in Geneva, Kassa Kebede, said in an interview that his government had communicated its displeasure at alleged bias against Ethiopia by the UNHCR to the high commissioner, Poul Hartling, in Geneva and senior UN officials in Addis Ababa.

"We are studying what measures we should take," he said. "We have not yet decided on specifics," but UNHCR policy "cannot continue this way."

Mr. Kebede declined to comment on reports that the UNHCR had been warned that it could be expelled from Ethiopia.

The Ethiopian threat is seen here by diplomats and aid officials as acutely embarrassing for the Geneva-based refugee agency, which is expected Thursday to launch a new multimillion-dollar appeal for refugees in the Horn of Africa.

Diplomats said the threat could

also complicate the UN role in coordinating a vast multinational famine relief effort in Ethiopia where between six and eight million people are said by the government to be in danger of starving to death.

In a previous interview, Mr. Kebede said the Ethiopian government had two chief complaints against UNHCR operations.

He said the agency had accepted "exaggerated" estimates of refugees from the governments of Somalia and Sudan. He also charged that UNHCR aid to the refugees in Sudan has "enticed" people out of Ethiopia and that the agency had diverted funds from its relief effort inside Ethiopia to help guerrillas from Tigre and Ertria provinces who draw support from among the refugees.

Mr. Kebede referred specifically to a request by Ethiopia for help in rehabilitating more than 300,000 refugees who have returned to Ethiopia from Somalia.

Mr. Kebede, a former Ethiopian minister of labor and social affairs, also said that the UNHCR is yield-

Reagan to Stress Positive in State of Union Message

By Bernard Weinraub
New York Times Service

WASHINGTON — President Ronald Reagan plans to set legislative priorities for his second term with an upbeat State of the Union Message on Wednesday night.

In the address, White House officials said, he will seek to reach out to minority groups, emphasize deficit reduction and tax simplification, and stress his desire to ease the threat of nuclear war.

One official described the speech, which was discussed at a cabinet meeting Tuesday afternoon, as "very positive, nonconfrontational." Another official said, "What he wants to leave behind after the next four years is a meaningful arms control agreement with the Soviets and continued strong economic growth."

An underlying theme of the State of the Union Message, officials said, will be an effort by the president to reach "all Americans," including members of minority groups.

Mr. Reagan, who asserted last month that some black leaders had distorted his record, is expected to emphasize his endorsement of an array of programs helping minorities. These include fair housing,

employment training for minority youth and the creation of jobs through the suspension of the minimum wage for teen-agers during the summer, officials said.

The president is expected to endorse, for the first time, programs enabling low-income tenants in public housing projects to purchase their units. At the same time, he plans to press his proposal to revive blighted urban areas by providing federal tax and regulatory relief to businesses.

"He's definitely reaching out," said a ranking White House official.

The nationally televised speech will be Mr. Reagan's fifth State of the Union address. It will be delivered at 9 P.M. in Washington before a joint session of Congress.

In the domestic portion of the speech, an official said, Mr. Reagan will lay the groundwork for his second term by stressing the "opportunity for all" that awaits the nation by reducing the deficit and overhauling the tax system.

According to White House officials, Mr. Reagan's foreign policy portion of the speech will highlight his efforts at reaching what one official termed "lasting achievements" in arms control. He is expected to emphasize that cutting

the Pentagon budget, as many legislators seek, could undermine the U.S. bargaining position in strategic arms talks in Geneva.

"The main foreign policy subjects in this speech are what can be done to lift the threat of nuclear war, resolve dangerous nuclear conflicts, strengthen and expand democracy on a worldwide basis and help us build a vibrant world economy," an official said.

Mr. Reagan not only will discuss "the American contribution and leadership in the global economic

recovery," said one official, but will urge a comprehensive Western approach to agricultural programs in Africa in order to make nations there self-sufficient and avert famine.

"What the speech will stress is the idea that we are now able to create a more safe world, a more peaceful world, a world that's more free," the official said. "He wants that to be a legacy."

Specifically, Mr. Reagan will press for the administration's plan for a billion worth of new MX missiles and \$3.7 billion in research on anti-missile defenses.

Aides said that although Mr. Reagan, in the foreign policy portion of his remarks, would briefly discuss many areas of the world, he would concentrate on Central America.

According to one official, Mr. Reagan will seek national support for his policy in Central America, including covert aid to Nicaragua's rebels. He will do this by emphasizing, among other things, the region's geographic proximity to the United States.

"The argument is, and the argument to be made in the speech is, we need to defy Soviet-supported aggression," the official said. "The Sandanista government persecutes

its people, the church. We need to aid those that are interested in freedom in Nicaragua.

"This is essentially the choice Congress has to make. Either we support the democratic forces who struggle there as tied to our own security, or we face the consequences at some future date."

Mr. Reagan also is expected to talk of embarking on a space program that would open the way for private investment and the development of medicines and computer chips in space. The president plans to discuss the development of high-technology industries and efforts to spur employment in newer fields outside traditional or dying businesses.

On the domestic side, officials said, the dominant themes would be Mr. Reagan's effort to shrink the size of the government and to reduce the deficit with cuts in domestic spending, plus the aggressive effort to reform and simplify the tax code.

"The speech reflects Reagan's vision of America," an aide said. "It's filled with his optimism, his commitment to basic values, his commitment to budget reduction and tax reform. He's going to sound as optimistic as he always is. It's one of the hallmarks of the man."

The ambassador said Ethiopia would like the UNHCR "to stop being a servant to politically motivated groups."

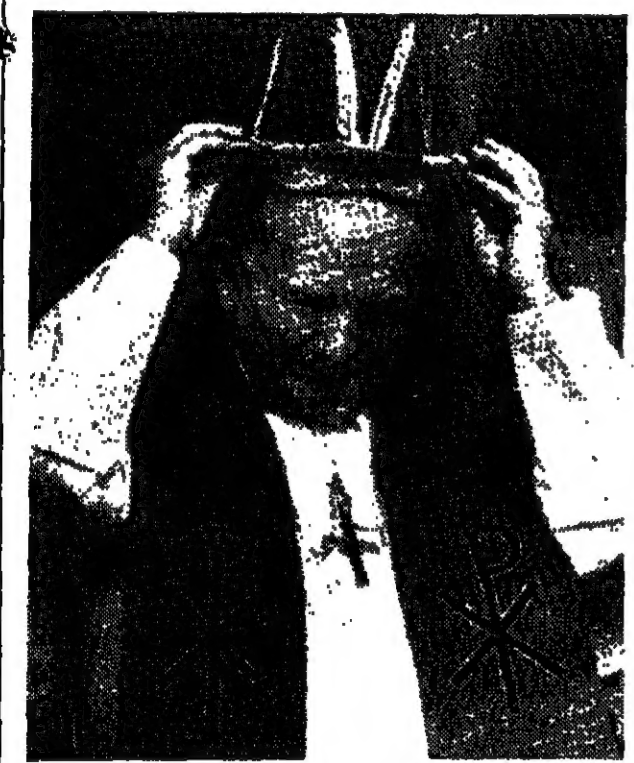
The UNHCR is the major international agency assisting refugees and has been awarded the Nobel Peace Prize twice. The agency estimates that there are more than one million Ethiopian refugees in neighboring Sudan and Somalia.

Responding to the Ethiopian charges, diplomats and aid officials here conceded that there is a "bottleneck" at work in Sudan, and that the UNHCR's efforts are probably attracting people from inside Ethiopia. About 230,000 refugees have arrived in eastern Sudan from Ethiopia since last October in the wake of increased fighting in a 10-year-old guerrilla war and the continuing famine.

They conceded that the Ethiopian charges demonstrate the pressures which face UN agencies trying to reach victims on all sides of a crisis.

UN officials said that the new UNHCR appeal foresees that at least 300,000 more refugees will enter Sudan in the near future, they predicted, would add to Ethiopian's suspicions that the agency is uncritically accepting estimates of numbers from Sudan.

So far, according to UN figures, the UNHCR has received \$1.2 billion in contributions from 100 countries.



PAPAL GIFT — Pope John Paul II tried on an Indian headdress presented to him by the Yagua tribe of Amazonian Indians in Iquitos, Peru, before flying to Trinidad, ending a 12-day visit to Latin America. Page 4.

Israel's Recession Slows Settling of West Bank

By Thomas L. Friedman
International Herald Tribune

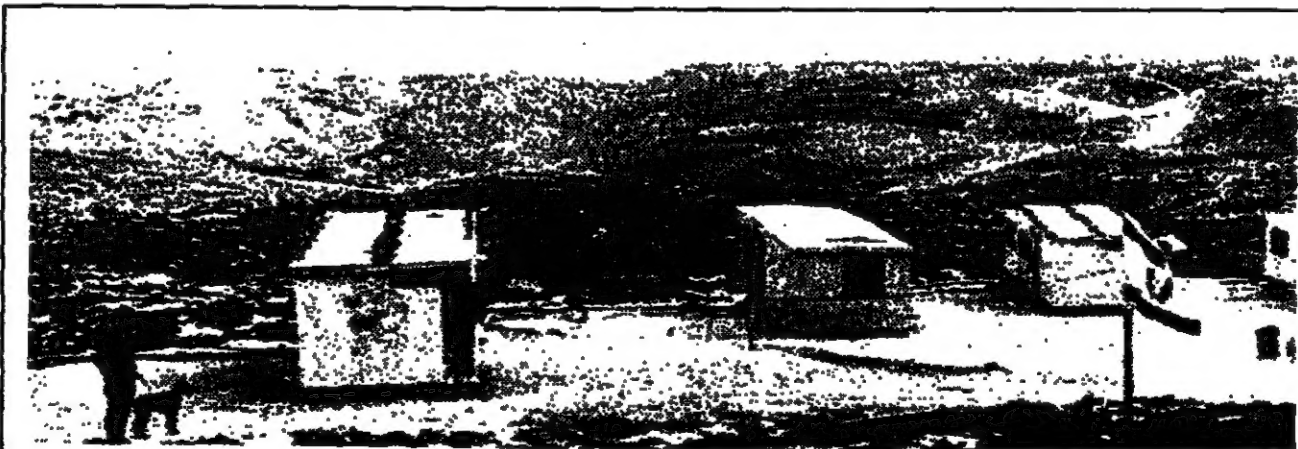
ABIR YAACOV, Israeli-Occupied West Bank — Israel's economic recession appears to be doing little to curb the flow of Jewish demonstrations and political debates have not: slow the growth of Jewish settlements in the West Bank.

Consider tiny Abir Yaacov. It consists of four families, one dog and four Israeli soldiers who stand guard around the clock. The place is so small that late-morning visitors often find no one living there until they arrive. It was hastily on July 1, 1984, just before the national elections, and began with 30 families living in tents. But when the Ministry of Housing allocated money for only four trailer homes, almost everyone moved back to Jerusalem and Tel Aviv.

The remaining residents of Abir Yaacov are holding out atop this desolate hillside 15 miles (24 kilometers) north of Jerusalem. They say the government has promised permanent housing and enough gasoline to run their electricity generator all day, instead of the few hours at night to which they now are limited. But, for the present, they must wait. The money that will make this place a viable settlement is not available. And it is not clear when it will be.

"It's kind of funny, four soldiers guarding so few people," said a reservist from Tel Aviv, one of those assigned to Abir Yaacov. "Sometimes everything goes, and you are the only one here. It is very strange what they are doing; I actually admire them. But if you were the government, would you give money for this?"

That question is asked often these days, with a new national debate on the settlements appar-



Abir Yaacov, started by 30 families last July, has only four houses because the government has provided little money

Israel to Increase Security in Wake Of Two Deaths

RAMALLAH, Israel Occupied West Bank — Defense Minister Yitzhak Rabin said Wednesday that Israeli forces would increase their presence on the West Bank following the deaths of two Israelis.

Mr. Rabin, under pressure from nationalists to take action against Palestinian militants, also said that other security measures were planned.

As he spoke, three-man patrols fanned out through the streets of Ramallah. For the second day, about 150 shops were shut on army orders.

Mr. Rabin said that despite the deaths of the past 10 days he did not believe security had deteriorated, adding, "There has not been any change in the number of terrorist acts, but, unfortunately, two of them have been more successful."

Castro Ties Backing for U.S. Peace Role in Angola to Namibia

By Jim Hoagland
Washington Post Service

HAVANA—Cuba is prepared to cooperate with an American-sponsored peace effort aimed at ending all Cuban troops out of Angola in return for withdrawal of South African troops from Southwest Africa, or Namibia, and independence for that disputed territory, President Fidel Castro of Cuba has said.

Mr. Castro also said in an interview here last week that Cuba's troop strength in Ethiopia has fallen to a symbolic level. He declined to give figures, although U.S. officials have put the current number down at 5,000, down from an initial 17,000 in 1977.

In his first full account of the Cuban reaction to a series of diplo-

matic developments in southern Africa in recent months, Mr. Castro endorsed the U.S. mediation effort there as having the potential to "exercise a positive influence in the international sphere" and improve relations between Washington and Havana if it is successful.

While hinting at a substantial lowering of Cuban military subsidies in Africa, Mr. Castro also warned that his units would stay in Angola "five, 10, 15 years" or longer if the regional peace settlement sought by the United States is not achieved.

But behind the strong assertions by Mr. Castro and other officials of Cuba's willingness to stay in Angola as long as needed, there were emerging signs here of a lessening of public enthusiasm for the nine-year war effort in which an estimat-

ed 2,000 to 3,000 Cuban soldiers have died.

Mr. Castro declined to give any casualty figures, saying only that 200,000 Cuban soldiers and civilians have served in Angola, where an estimated force of 25,000 to 30,000 Cuban troops has been supporting the Marxist government against a series of South African invasions and the Angola guerrilla forces, led by Jonas Savimbi, which are allied to South Africa.

One of Cuba's most popular folk songs today carries veiled allusions to a war weariness with Angola, according to Havana residents who report that in contrast to earlier years, they are now aware of growing numbers of Cuban soldiers refusing to serve in Angola. Cuban forces in Angola reportedly are vol-

unteers, mostly drawn from reserve units.

After three years of conversations with the Reagan administration and the South African government, Angola announced in November the conditions it had put to South Africa for a settlement. They included carrying out U.N. Security Council Resolution 435, which calls for independence for Namibia, a complete South African military withdrawal from that territory and a halt to logistical aid to Mr. Savimbi's guerrilla group UNITA, or the Union for the Total Independence of Angola.

In turn, Angola said it would agree to a withdrawal of 20,000 Cuban soldiers from southern Angola over a period of three years. A residual Cuban force, the size of which is not disclosed in the

published Angolan proposal, would remain for an indefinite period north of the 13th parallel around the capital city of Luanda and in the coastal oil-producing enclave of Cabinda, which is separated from the rest of Angola by a strip of Zaïre.

South Africa swiftly accepted the proposal, and has followed outlinings by the Angolans but rejected the procedures. Frank G. Wisner, deputy assistant secretary of state for African affairs, has engaged both governments in a new round of discussions in recent weeks in an effort to break the deadlock.

In his interview, Mr. Castro provided some new details of the proposal as understood by the Cubans. He indicated that the Cuban force that would remain behind would number up to 10,000 sol-

diers and would be garrisoned around airports, communication points, the capital and Cabinda, where Gulf Oil Corp. produces 155,000 barrels of oil a day.

"Cabinda is vital for the Angolan economy," Mr. Castro said. "Gulf Oil works there, and I think they are satisfied they have been well defended. Clearly we don't do it to defend the interests of Gulf. We are defending the interests of Angolans, and the oil suits both Angola and Gulf. Our forces there are not part of those covered in the negotiations taking place."

"If an agreement is reached," said Mr. Castro of the Namibia negotiations, "we will comply rigorously to the part which involves us. It is the Angolans who have to

(Continued on Page 2, Col. 1).


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INSIDE

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- South Korea's national assembly elections have become a contest between President Chun Doo Hwan and a dissident, Kim Dae Jung. Page 5.

BUSINESS/FINANCE

- Economists say recent figures indicate West Germany's economy could be stagnant in the first half of 1985. Page 11.
- The dollar rose amid speculation that U. S. interest rates will continue to increase. Page 11.



Keyframe/1980

James Hadley Chase, a mystery writer, died in Switzerland at 78. Page 3.

Quiet Repression Affects Polish Doctor

By Bradley Graham
Washington Post Service
WARSAW — Dr. Zofia Kuratowska remembers the threat well. It was autumn 1982, and she had been summoned to the Interior Ministry for another interrogation about her work for political internees.

The authorities could not do much to her. Her position as medical counselor on the Polish Roman Catholic prime's committee aiding political prisoners provided a kind of protective church

umbrella. But she was warned by secret police officers that she would eventually suffer consequences at her job for probing the medical condition of detainees.

Polish officials in late December closed the Warsaw hospital ward for blood disease victims that Dr. Kuratowska headed, cut her salary and reassigned the well-known physician to an outpatient clinic in a suburb of the capital.

Archbishop Bronislaw Dabrowski, secretary of Poland's Catholic episcopate, has written to

the government protesting the action, which he charged was directed as much against the church as against the doctor.

The case illustrates the quiet forms of repression being used now by Communist authorities against political opponents. Such measures have the advantage of holding down the number of political prisoners, avoiding unfavorable international attention that could disturb improving ties between Warsaw and Western capitals, while still intimidating and punishing the opposition.

Often the choice confronting Poles is not between freedom and imprisonment but between keeping a good job and being forced into a poor one, between obtaining a passport to travel abroad or not, between protecting family members or exposing them to politically motivated persecutions.

Dr. Kuratowska, 53, graduated from the Warsaw Medical Academy in 1955. She won international notice 25 years ago for locating in human kidneys a substance that regulates the production of red blood cells.

Ten years ago, she was appointed to head a ward at Warsaw's Barska Street Hospital. She proceeded to build up a clinic specializing in the treatment of acute leukemia and other blood diseases.

During the 1980-1981 Solidarity period, Dr. Kuratowska chaired a local branch of physicians aligned with the independent union movement. After martial law was declared in December 1981, she refused to sign a government loyalty oath. She was recruited to work for the prime's aid committee, for which she attempted to visit several internment camps.

One report she wrote in the summer of 1982 detailed an attack by prison guards on inmates in the northern town of Kwidzyn. Several prisoners were hospitalized as a result of beatings, which authorities alleged were in response to a riot by the inmates. Shortly after the incident was publicized, Dr. Kuratowska was summoned to the Interior Ministry and given the warning that her hospital position was in jeopardy.

A first attempt to shut her ward came not long after that, in early 1983. But a petition drive that collected 6,000 signatures succeeded in postponing the closure. Her intensive care unit was disbanded in the meantime and the beds under her care shrunk from 90 to 30.

At the end of December, the whole ward was closed, technically for renovation, and Dr. Kuratowska was permanently reassigned. In a city where hospital beds are in short supply and expert medical attention is hard to find, the action struck many Poles as outrageous. An effort to have Dr. Kuratowska appointed to oversee a ward at another Warsaw hospital reportedly was blocked by party officials.

Poles Return Activist to Paris
A prominent Solidarity activist was denied permission to return to Poland after three years of exile in France because he carried an improper passport, a government spokesman said Wednesday, according to The Associated Press.

Seweryn Blumstajn, former head of Solidarity press service, was detained by police at Warsaw airport Tuesday after arriving on an Air France flight from Paris and was placed on the next flight back to the French capital.



IRAN ANNIVERSARY — Firefighters Wednesday tried to put out a fire started by an Iranian royalist group at the Bank Mellé in central Frankfurt. In Tehran, two persons were killed by a grenade explosion and police gunfire as Iran marked the sixth anniversary of the return from exile of Ayatollah Ruhollah Khomeini.

Mubarak Accuses Israel Of Inflexibility on Ties

By Judith Miller
New York Times Service

CAIRO — President Hosni Mubarak has accused Israel of not being flexible enough in the search for peace.

The Egyptian leader also criticized the Israelis for not withdrawing immediately from Lebanon.

It was Mr. Mubarak's most sweeping expression of dissatisfaction with Israeli policies since Shimon Peres became Israel's prime minister in September.

Mr. Peres, speaking Monday in Jerusalem, had made his first public criticism of what he described as Egypt's failure to respond to his efforts to improve relations between the two countries.

Mr. Mubarak, asked Tuesday to comment on those remarks, replied, "Egypt is also not satisfied with the efforts they are making to solve problems for the sake of peace." He did not elaborate.

In response to another question, Mr. Mubarak said he expected deadlocked negotiations over the tiny border strip of Taba to resume soon.

"I expect soon, but I am asking the Israelis to be much more flexible," he added.

A Foreign Ministry official denied Mr. Peres's assertion that Egypt had not responded to efforts to improve ties. Egypt recently made several gestures to try to improve the political climate, he said.

For example, he said, Cairo responded positively to Israeli requests for compensation for water pipes installed in the Sinai during its occupation, and for greater help for refugees in Canada Camp, near the border. Many of them had lived in the divided Sinai city of Rafah.

Egypt made these decisions three or four weeks ago, the official said, and conveyed them to the Israeli ambassador in Cairo.

Finally, the official said, Egypt had permitted Israel to participate in the Cairo Book Fair, an annual international exhibit and sale from which Israel was barred last year.

"We have been very forthcoming," the official asserted.

On another subject, Mr. Mubarak was asked whether he thought Israel should keep some of its troops in Lebanon until the Lebanese Army was strong enough to maintain order. He replied, "I think it is not right."

"The best thing is to withdraw completely to their international border," he said. "They can defend their border because Israel is not a weak country and can defend itself against any aggressor."

He urged that the Lebanese factions be left alone "to solve their problems independently."

The Foreign Ministry official said he thought Mr. Peres's remarks were aimed at Washington rather than at Cairo.

"We see it as something of a plea to the Americans to pressure Egyptian officials into changing long-held positions," the official said.

Mr. Mubarak is scheduled to meet with President Ronald Reagan and other senior U.S. officials in Washington early next month. Foreign Minister Esmat Abdel Meguid is expected in Washington this week to prepare for the visit.

Mubarak to Visit London

Mr. Mubarak will stop in London for talks with Prime Minister Margaret Thatcher either before or after his visit to the United States. The Associated Press reported government officials in London as saying Tuesday night.

WORLD BRIEFS

Kyprianou Rules Out Early Elections

ATHENS (Reuters) — President Spyros Kyprianou of Cyprus, who has come under heavy domestic criticism over the failure of United Nations talks to reunite the island, Wednesday ruled out early elections over the issue.

The pro-Western Democratic Rally and the pro-Soviet Communists, who between them command a majority of votes in the Greek Cypriot parliament, have charged Mr. Kyprianou, who was elected in 1983 for five years, with being inflexible in last month's talks about ending the partition of Cyprus.

But Mr. Kyprianou, visiting Athens to discuss the breakdown of the talks with Greek leaders, defended his stance at the talks with the Turkish Cypriot leader, Rauf Denktaş, in New York and ruled out an early poll. "We are not near to elections. It's a presidential system in Cyprus," he told journalists. The two opposition parties said Mr. Kyprianou should have agreed to Turkish Cypriot demands to sign a document setting up a federal republic.

Rep. Crane Joins Anti-CBS Crusade

RALEIGH, North Carolina (UPI) — Representative Phil Crane has joined Senator Jesse Helms's conservative crusade to buy control of the CBS television network.

Mr. Crane, a Republican from Illinois, announced Tuesday that he was joining the campaign because "it is the best chance conservatives have ever had to end the liberal bias in media." Mr. Helms, a Republican from North Carolina, mailed a million letters to conservatives last month asking them to buy enough stock to end what he called the network's "liberal, anti-Reagan bias."

The network's chairman, Thomas H. Wyman, has called the campaign a "political game" with little chance of succeeding. "We're not anti-Reagan than NBC or ABC," he said Tuesday at Duke University in Durham, North Carolina. "Complaining about the coverage you get, or about the coverage your opponents get, is part of the political game."

French Communist Attacks Socialist

PARIS (Reuters) — Georges Marchais, the leader of the French Communist Party, opened the party's 25th Congress on Wednesday with a denunciation of the record of the Socialist government. His five-hour speech buried any chance that the leftist alliance, broken when the Communists left the government last July, might be rebuilt.

Mr. Marchais, 64, who has been blamed by reformers for leading his party into decline, said most of the Communists' difficulties stemmed from 25 years of mistaken efforts to forge an alliance with the Socialists. He said the Communists had been right to enter the government in 1981 but also right to leave it three years later. "In three years, the position of France has seriously deteriorated," he said.

Mr. Marchais, who has led the party since 1972, traced the party's decline to its failure to distance itself from the Soviet model and update its ideas until 1976. However, he rejected calls for the party to improve its public image by breaking completely with Moscow.

Iraq May Get German Pesticide Gear

KASSEL, West Germany (Reuters) — A West German court Wednesday overturned a government export ban on pesticide plant equipment produced for Iraq after saying that it could not be used to make poison gas.

The Hesse State Court in Kassel said its main objection to the order was a procedural one — only two ministers signed the order, not the required three.

Their cabinet colleagues during parliament's summer recess. A decision of such significance could not be taken by a minority of the cabinet, it ruled. But it also said the plant, produced by the Frankfurt-based Pilot Plant Engineering and Equipment, was not suitable for producing poison gas for military purposes. Bonn banned exports of chemical plant equipment to Iraq in August following reports that Baghdad was using chemical weapons in its war against Iran and that a West German-supplied chemical plant could be adapted to produce poison gas. Iraq denied the allegations.

U.S. Stops Aid for Population Fund

WASHINGTON (UPI) — The U.S. Agency for International Development has decided to postpone an allocation of \$23 million for the United Nations Fund for Population Activities.

M. Peter McPherson, the agency's administrator, said he had ordered "a careful review" of the assistance because of concerns expressed about China's population program by private groups and members of Congress and because of recent press articles on the subject. Other AID officials said the review would probably take several months.

Questions raised about China's family planning program have apparently cast doubts within the Reagan administration and the Congress on the UN program as a whole. The population fund has provided \$50 million to China for its program from 1980 through 1984. The holdup reflects opposition of the right-to-life movement inside Congress as well as last year's shift within the Reagan administration away from U.S. government support for population programs.

For the Record

The 48th game of the world chess championship between the title holder, Anatoli Karpov, and the challenger, Gary Kasparov, has been postponed until Friday because Mr. Karpov is taking a time-out. Tass reported Wednesday. Mr. Karpov leads, 5-2, and needs one more win to retain his title. (AP)

Turkey denied Wednesday a charge by Greece that its troops crossed the border and exchanged fire with a Greek patrol. A Greek Foreign Ministry spokesman said three Turks crossed the border and opened fire when asked by a Greek patrol to turn back. (Reuters)

The head of the Foreign Relations Commission in Argentina's Chamber of Deputies, Federico Storani, who is a member of President Raúl Alfonsín's Radical Civic Union Party, said Wednesday that the government has stated the possibility of leasing the disputed Falkland Islands to Britain if London recognizes Argentine sovereignty. (UPI)

An unnamed Minuteman-3 intercontinental ballistic missile launched early Wednesday in an operational test was destroyed over the Pacific, when an anomaly was detected, a U.S. Air Force spokesman at Vandenberg Air Force Base in California said. The cause of the problem was not known and there was no additional information, he said. (AP)

Troops of the Dominican Republic parolled the capital of Santo Domingo Wednesday after a wave of strikes and violent clashes in which two persons were killed and scores of arrests were made. The violence was sparked by protests which began last week against economic austerity measures sought by the International Monetary Fund. (Reuters)

Recession Slows Settlement of West Bank

(Continued from Page 1)

going up within easy commuting distance of Tel Aviv or Jerusalem, and the build-your-own-home projects, in which anyone with enough money can buy a plot of land from the government.

"There are now very few projects beginning," said Israel Harel, head of the Council of Jewish Settlements, which coordinates the areas' activities. "But we have some 7,000 apartments already in the works and these should give us some breathing space for a year or so. Only after that will we really have to worry."

The slowdown has affected both individual builders and major contractors, because the government has had to cut back spending on such basic projects as roads, sewers and electrical lines. Moreover, inflation has driven up mortgage rates to a point where many young couples cannot qualify for loans.

West Bank and Gaza Strip settlers say they are worried about the implications for their areas. Mr. Harel noted that no one worries

that, if there is little building in Tel Aviv for two years, the city will be given to the Jordanians. The same is not true of the West Bank settlements, he said.

The settlers, for all their 122 communities and 35,000 inhabitants, do worry that the West Bank, which Israel seized in the 1967 war, might be given back one day and that they have not yet "created enough facts" to prevent it.

Outside the bedroom communities near Jerusalem and Tel Aviv, many of the West Bank settlements still are little more than villages, or mobile-home parks with 12 to 20 families. These are not the kind of "facts" that might block the territory's return.

That feeling was clearly expressed in a recent debate over setting up six new Jewish settlements. When the Likud and Labor agreed to form a coalition government in September, part of the deal was that those six communities would be built within a year.

As some settlement leaders from Gush Emunim, or Bloc of the Faithful, freely acknowledge, there is no real need for the new settlements. In fact, their construction would divert much-needed resources from weak settlements such as Abir Yaacov. Their real purpose in pushing for new areas, they say, is to test the Labor-led government and to ensure that the settlement movement does not lose momentum.

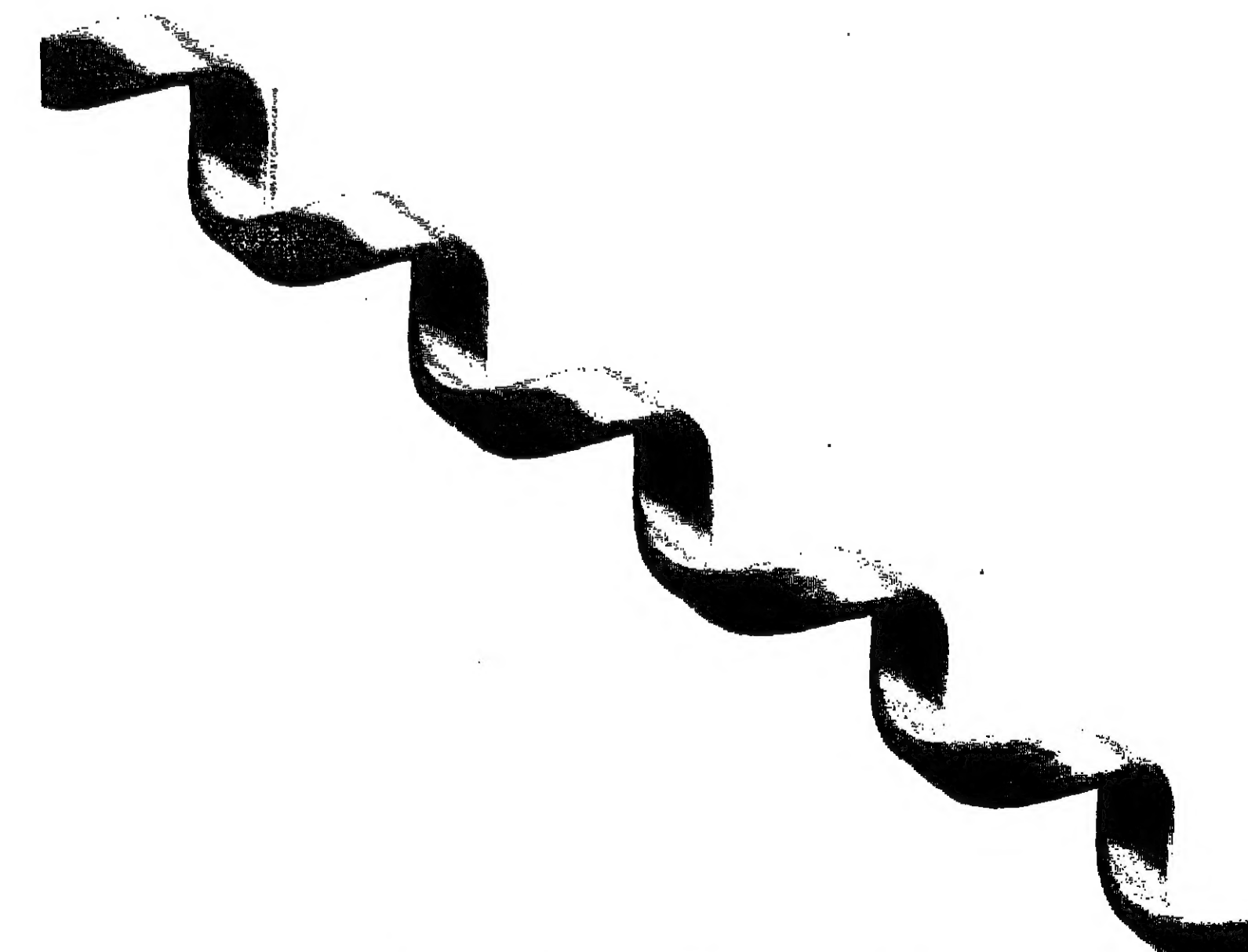
Prime Minister Shimon Peres of the Labor Party, who has been quietly allowing the economic crisis to freeze settlement building, did not oppose the vote on the new settlements because he knew that virtually no money was available.

The money is supposed to come largely from the budget of Nissim Zivli, the Labor-appointed co-chairman of the settlement committee of the Jewish Agency, a semi-official body dealing with settlement and immigration.

But, Mr. Zivli said, it would cost \$12 million to \$15 million to build six settlements, an amount, he said, that would be roughly 50 percent of what he expected his budget to be in fiscal year 1985 for all settlements in the West Bank and Gaza.

"If we are passing through an economic crisis," he said, "you can't go on building new settlements, especially when there are already 500 empty apartments on the West Bank. Unless we get more money, we are not going to fund any of these six settlements. If you ask me, every penny being spent on new settlements now is a waste of money. When settlements that already exist are about to collapse, it is completely stupid to build new ones."

Mr. Harel said there were empty houses at his settlement, Ofra, but that was only because ideologically and socially compatible people had not been found yet.



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In Korea's Election, The 2 Key Politicians Are Not on the Ballot

By John Burgess
Washington Post Service

SEOUL — Following a 20-day campaign conducted amid bitter cold and close government regulation, South Korean voters will elect a new National Assembly next Tuesday.

In many respects, the vote is shaping up as a test of two men who will not be on the ballot, President Chun Doo Hwan and the dis-

sent exile, Kim Dae Jung.

Mr. Chun, a former Army general, is determined to see an orderly campaign and vote that will demonstrate popular support and political stability in his fifth year of rule.

But Mr. Kim, who is expected to return to South Korea four days before the Feb. 12 voting, has different plans. He appears to hope it will begin propelling him and the opposition to prominence.

Mr. Kim's return has presented a dilemma for the president — whether to arrest him and risk a popular reaction or to let him circulate and hope that people forget about him. The government has said it does not plan to arrest Mr. Kim upon his return.

Many members of the opposition here distrust Mr. Kim, but most seem to welcome his return as a means of giving focus to anti-Chun sentiments and lifting their camp's spirits.

Thus, some analysts see turbulent times ahead in South Korea, an important U.S. ally. "When Kim Dae Jung is back in the country," a Western diplomat said, "tension is going to be higher."

Much could depend on whether the opposition succeeds in mobilizing South Korea's student population, traditionally a potent force in politics but now relatively quiet.

But other analysts, including many in the government, argue that

Mr. Kim is a has-been, an opportunist who has little standing among the public and will have only a marginal impact. He is dangerous, they say, not due to his popularity but to an alleged willingness to use any means to gain power.

There is little expectation that the election results will affect the president's grip on politics here. "This is not a contention for power," said Lee Jong Ryool, spokesman for the ruling Democratic Justice Party. "This is a contention for control of the National Assembly."

Power in South Korea rests not there but in the Blue House, as the presidential mansion is known. Mr. Chun is only halfway through a term that runs until 1988, when he has pledged to step down.

The campaign formally began in late January. By Western standards, it is not free. Although Chun has loosened some controls, 15 of the opposition's senior leaders remain banned from any participation in politics, the press is controlled and police agents loiter conspicuously outside dissidents' offices.

Controls extend to the minute details of the campaign. Recently, the government reportedly ruled that posters cannot allude to any association a candidate may have had with a banned politician. Slogans deemed too inflammatory are not allowed.

The government maintains that such controls are necessary to bring order to an inherently chaotic political scene and rein in "irresponsible" and "demagogic" politicians who are prone to committing election fraud.

The threat from North Korea, government officials argue, makes the speedy introduction of full democratic freedoms impossible.



Kim Dae Jung, the South Korean opposition leader, at a press conference in Washington before his departure for Korea. At left is Robert White, a former U.S. ambassador to El Salvador who will be one of several Americans to accompany Mr. Kim as a security shield.

But many dissident leaders see the controls as a means of preserving power for Mr. Chun.

In an interview last week, Kim Young Sam, a former opposition party president, charged that the government is committing campaign improprieties. He said it exceeds spending limitations, uses police and other officials to gather votes and limits rallies to times when attendance is sure to be low.

"Seats in the National Assembly are not important," he said. "What is important is to tell the citizens the truth and fight the present regime."

Mr. Chun came to power in 1980 in a military coup. He was elected president the following year under a constitution drafted with the supervision of his party, which con-

trols 55 percent of the National Assembly seats. It is generally believed that Mr. Chun's Democratic Justice Party will retain about that number of seats.

In its campaign, the ruling party is stressing the relative calm of the past four years and South Korea's continuing economic growth, which was about 8 percent last year.

Opposition candidates are focusing on continuing limitations on democratic freedoms and on Mr. Chun, whose legitimacy as president many never have recognized.

In particular, they demand that the constitution be amended to allow direct election of the president. Under the current system, it is done by an electoral college with more than 5,000 members, which they

maintain is open to manipulation by the ruling party.

The opposition continues to have trouble in maintaining unity, however. There are currently three parties arrayed against Mr. Chun's party.

The most dynamic of the three is the New Korea Democratic Party, formed last month in Seoul after Mr. Chun lifted bans on 84 politicians. The party is commonly believed to represent Kim Dae Jung and Kim Young Sam, although neither holds formal office in it.

Kim Dae Jung has spent the past two years in the United States, following his release for medical reasons in 1982 from a South Korean prison, where he was serving a 20-year sentence after being convicted of sedition by a military court.

For the present, the big question is how the government will respond when he arrives here Friday with about 20 sympathetic Americans and crowds of foreign journalists.

World interest has been aroused by parallels between Mr. Kim and the Philippine dissident leader, Benigno S. Aquino Jr., who was assassinated in 1983 just seconds after stepping off a plane that brought him home from exile in the United States.

Government officials contend that no one is more interested in Mr. Kim's safety than they. The government invariably would be blamed for anything that happened to him, they say. North Korean agents or local extremists might view his killing as an easy way to foment unrest.

Hanoi Seeks Better Ties With Beijing

By Barbara Crossette
New York Times Service

BANGKOK — Vietnam's Communist Party leader has acknowledged in a speech marking the party's 55th anniversary that there are "shortcomings and mistakes" in Vietnam's economic and ideological affairs, according to reports from the Vietnam News Agency.

The official Hanoi agency, monitored in Bangkok, said the party secretary-general, Le Duan, also told party and government officials that the country should improve its relations with China and with non-Communist nations of Southeast Asia, while continuing to build ties with Moscow.

The speech last weekend came at a time when diplomats in Hanoi suggest that a faction of Vietnam's leadership has become wary of growing dependence on the Soviet

Union and would like to keep a line open to Beijing.

Relations between the Chinese and Vietnamese, who were traditional enemies until this country's war against the French and Americans, have deteriorated again over the last six years, as Beijing has given substantial material support to rebels in Cambodia, who are trying to overthrow the Vietnamese-installed government in Phnom Penh.

Last week in Bangkok, Prince Norodom Sihanouk, a leader of the Cambodian rebel coalition, said he had been told in Beijing that Vietnam had been seeking talks with China. Along with their disagreement over Cambodia, the Vietnamese and Chinese have been fighting sporadically along their common border.

"We are prepared to normalize

relations with China," the Vietnamese party's secretary-general was reported to have said, adding that Hanoi "firmly believes that the friendship between the two countries will have to be restored."

Mr. Duan's speech follows a report by Hanoi in December that acknowledged a failure to meet nearly all the country's economic targets in 1984.

African Rebels Given Autos

Reuters

DAR ES SALAAM, Tanzania — The Soviet Union's ambassador to Tanzania, Yuri Yukalov, has given 10 automobiles to the African National Congress, the main guerrilla group fighting white rule in South Africa, the official new agency, Shihata, reported Wednesday.

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The press has given wide publicity to the influx of hundreds of mainly Iranian and Iraqi asylum-seekers, and officials partly blame

month.

The commission has accused police and public prosecutors of racial prejudice, allegations that have been angrily rejected by representatives of both professions.

A French Defense Ministry official, General René Audran, was assassinated in Paris on Jan. 25, and both groups claimed responsi-

Reprints

The government's decision follows an announcement by two leading urban guerrilla groups, France's Direct Action and West

Mr. Broussard is credited with producing a dramatic drop in the number of attacks by the outlawed separatist Corsican National Liberation Front.

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Portugal	Esc.	11,200	5,600	3,080
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7.2.84

Russia Stepping Up Prosecutions of Jews

By Seth Mydans
New York Times Service
MOSCOW — A Hebrew teacher who had attracted a wide following among Soviet Jews has been sentenced to an 18-month term in a labor camp on a charge of possessing a weapon, his friends said.

The sentencing last Friday of the teacher, Alexander Kholmyansky, a 32-year-old computer scientist in the Estonian city of Vora, was the latest in a series of cases that authorities have brought against leaders of unofficial Jewish cultural life.

Mr. Kholmyansky was also fined 100 rubles (about \$120) for mail-box tampering, his friends said.

Jewish activists who reported the results of the two-day trial said a pistol and cartridges had been planted in Mr. Kholmyansky's apartment in Moscow during a search. According to the activists, what they called the fabrication of charges against Mr. Kholmyansky followed a pattern seen in other recent cases brought against Hebrew teachers.

In December, Yuli Edelstein was sentenced to three years in a labor camp on a charge of possession of opium. His wife said the drug had been planted in their apartment.

In Kiev in November, another Hebrew teacher and prominent Jewish activist, Joseph Berenshtein, was sentenced to four years in a camp on a charge of resisting arrest. After his sentencing, his wife said, his face was mutilated and his eyes were badly cut in an unexplained prison incident.

[On Tuesday, a campaigner for the right of Jews to emigrate, Mark Nepomniashchy, was sentenced to three years imprisonment on charges of "defaming the state," dissident sources in Moscow said Wednesday, according to Reuters.]

The Jewish activists said that arrests of such people had increased in recent months and that several other cases were awaiting trial. They said searches of the homes of activists had increased, with a wave of 50 searches toward the end of last year and about 15 in January.

"They are trying to frighten us into silence," an activist said. "They have decided to cut the links within the Jewish community."

The Jewish activists expressed concern about the health of Joseph Begun, an activist and Hebrew teacher who has become something of a symbol for the movement and who has repeatedly been brought to trial since 1977.

He was sentenced to seven years in a camp and five in internal exile in October 1983 on a charge of producing and distributing anti-Soviet literature. His friends say that since then, he has spent eight

months in an isolation cell and has developed heart trouble.

At the time of his arrest, his friends said, he had 10 students from five cities.

Mr. Kholmyansky was first arrested on charges of tampering with a mailbox and trampling flowers, his friends said. Other friends immediately searched his apartment, they said, in a step Jews sometimes take to assure against confiscation of an arrested man's property.

They said that no weapon was found during the search, but that the authorities said a pistol and

cartridges had been found under a dresser in a search they conducted at a later date.

In another development, spokesmen for a group of 44 Jews said they had asked that their names be struck off the register of voters for the election this month of delegates to the parliament of the Russian Federation of the Soviet Union.

They said they had sent a petition to the Supreme Soviet, or parliament, stating that they were taking this step because they now considered themselves citizens of Israel. The signers were among 133 Jews awaiting permission to leave.

Sofia Denies U.S. Charges on Drugs

The Associated Press
SOFIA — Bulgarian officials on Wednesday denied U.S. charges of involvement by Bulgarian organizations or individuals in international drug trafficking.

Stefan Petrov, director-general of the Sofia Press Agency, said: "Western mass media are distorting Bulgaria's policy, making sweeping accusations that deny our achievements in drug control."

He and other officials were speaking at a news conference convened by Bulgaria to spotlight what it said are its efforts to suppress shipments through the country.

Georgi Pirinski, a deputy foreign trade minister, also repudiated U.S. charges that Kintex, a state arms dealer, was actively engaged in transborder drug trade.

Asked for comment, a Western diplomatic source said: "Bulgarian authorities have been involved in one way or another in drugs trade." But he suggested that claims that much of the heroin in the United States comes through Bulgaria were exaggerated by officials of the U.S. State Department and Drug Enforcement Administration.

Testifying before a congressional subcommittee in Washington in June, U.S. officials maintained that as much as a quarter of the drug

that reached the United States originated in Bulgaria.

The diplomatic source here said the amount may be under 10 percent "but we're not even sure about that figure."

The U.S. government, meanwhile, continued its criticism of Bulgaria's record on drugs.

"The U.S. government has been aware for some time that known narcotics and drugs traffickers have operated on Bulgarian territory," a U.S. Embassy statement said. Its release coincided with the news conference.

The statement also said that the Bulgarian government did not cooperate enough with U.S. efforts to obtain "meaningful information on

narcotics trafficking and seizure."

A U.S. decision in 1981 to suspend talks on a customs cooperation agreement with the Bulgarians was "due to the accumulation of reliable reports regarding the activities of known narcotics smugglers on Bulgarian territory," it said.

Teodor Tsvetkov, deputy director-general of Bulgarian customs, presented a list of major drug seizures at Bulgarian borders in the past 18 years.

He said customs officers had foiled about 1,000 attempts to smuggle drugs amounting to about 30,000 kilograms (66,000 pounds), including 500 kilograms of morphine base and more than 200 kilograms of heroin.

Vietnam, Khmer Rouge Troops Clash

United Press International

ARANYAPRATHET, Thailand — Vietnamese troops backed by artillery fire battled Communist Khmer Rouge guerrillas along a stretch of the Thai-Cambodian border on Wednesday in a major drive to end all armed resistance in Cambodia.

Thailand's military barred reporters from the fighting along a 22-mile (35-kilometer) band south

of the border town of Aranyaprathet from Klong Ian to Khao Leum. But the sounds of artillery and mortar explosions and small arms fire could be heard across the frontier.

Thai military sources said that many Vietnamese artillery and mortar shells landed inside Thailand and "close-quarters" fighting was taking place only half a mile from the border. No immediate casualty reports were available.

Anti-U.S. Sentiment Is Blamed in Greek Bombing

WASHINGTON — Defense Secretary Casper W. Weinberger has said that anti-American sentiment aroused by Prime Minister Andreas Papandreu of Greece was partly responsible for a terrorist bombing that injured 57 Americans near Athens.

"Certainly there's been an awful lot of totally unnecessary and very damaging anti-American feeling that has been stirred up," Mr. Weinberger told the House Armed Services Committee Tuesday.

He said that it is unclear who planted the bomb last Saturday in a bar popular with U.S. servicemen. He added: "It is one of the things you tend to get when this anti-American sentiment is stirred up."

"It is quite true," Mr. Weinberger said, "that Mr. Papandreu has made very difficult and damaging comments about our country and about the relationship between the countries."

Mr. Weinberger's criticism, in response to a question from Representative Norman Sisisky, Demo-

crat of Virginia, was the first by an administration official linking critical remarks by the Greek prime minister with the bombing.

A previously unknown group, calling itself the National Front, claimed responsibility for the attack and warned of more attacks "against the Americans who are responsible for the continued situation in Cyprus."

Mr. Weinberger visited Mr. Papandreu in Athens last April. Since then, however, the U.S. ad-

ministration has become increasingly dismayed by the Greek leader's criticism of the United States.

Mr. Papandreu also has sought to reach agreements with his Communist neighbors — Albania, Bulgaria and Yugoslavia — without consulting the North Atlantic Treaty Organization. He has courted the Libyan leader, Colonel Moammar Qadhafi, and has charged that the South Korean passenger airliner that was shot down by Soviet missiles in 1983 was on a U.S. spy mission.

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Roland Dumas*, Minister of External Relations.

*Mr. Dumas has accepted in principle.

Additional insights will be provided by a panel of international businessmen and bankers, including: Eric Bourdais de Charbonnières, S.V.P. and General Manager, Morgan Guaranty Trust Company of New York and Louis Le Flach-Prigent, Chairman of Rhône-Poulenc.

Each presentation will be followed by a question-and-answer period, and simultaneous French-English translation will be provided at all times.

An important aspect of the conference will be the extensive opportunities to engage in informal discussion with the current policy makers and with other business executives actively doing business with France.

On February 27, the Ministry of Industrial Redeployment and Foreign Trade is organizing full day visits, exclusively for conference attendees, to industrial plants including

the Aerospatiale plant in Toulouse. Full details will be sent to all participants registering for the conference. To register for this exceptional conference, please complete and return the registration form today.

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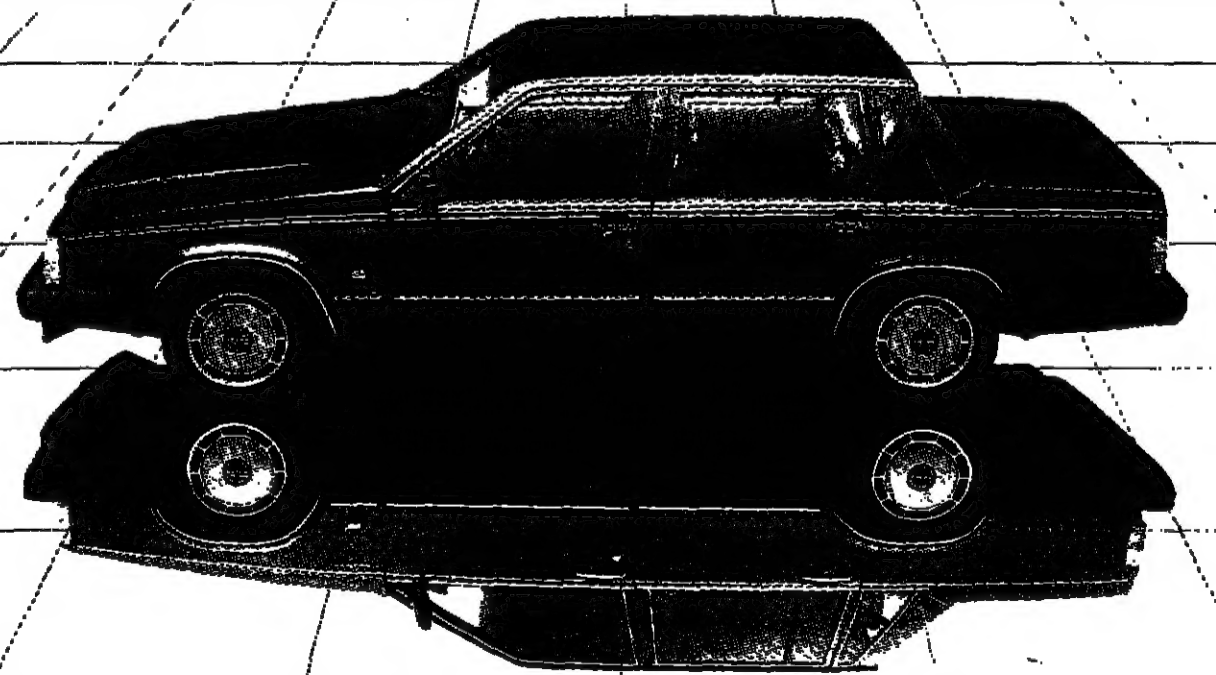
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stop the ripening of corn or the calves' growth. To protect them from big changes in cash flow and debt, a floor has to be put under their incomes. Nonetheless, the price paid for agricultural support is excessive.

nt, the Reagan administration promises an aggressive farm bill that would force agriculture to sell its surplus at market-related prices instead of cosily handing it over to the

INTERNATIONAL HERALD TRIBUNE

ive in tone, it enthusiastically embraces the economic theory known as monetarism. There are doubtless many compelling reasons for the appeal of monetarism to the Reagan administration at the present difficult moment. One, clearly, is monetarism's claim that if anything

There is one more thing that you can say about this interesting difference of opinion: Mr. Volcker is right and the council, in this attempt at scapegoating, is wrong.

—THE WASHINGTON POST.

David Lange, the New Zealand prime minister, is running an unnecessary risk with his country's future by barring the country's ports to U.S. nuclear warships. It is hard to challenge the American argument that New Zealand cannot expect to be protected by the Americans if it will not admit to its ports the means of its protection, which happen to include nuclear arms and nuclear-propelled vessels. Mr. Lange need not be surprised to find that his policy has encountered a testy U.S. reaction. Though the southern Pacific has not been an area of great power tension, there are signs of increasing Soviet activity there. New Zealand has exercised its right as a sovereign

— *Financial Times* (London).

OPEC countries are gradually surrendering control over prices and the volume of oil production to market forces. It would be premature to pronounce OPEC dead, but the cartel is surely sliding down the slope on its back. A price war among its members [is] likely if the oil market does not tighten soon.

— *Detroit Free Press*

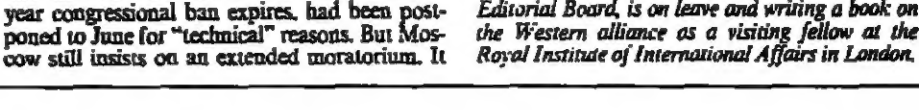
FROM OUR FEB. 7 PAGES, 75 AND 50 YEARS AGO

1910: U.S. Trusts Said to Hoard Food

NEW YORK — Considerable attention has been directed to the report filed by the packing and refrigerating companies showing the quantity of food stuffs now held in cold storage. Throughout the inquiries into the high cost of living, the food trusts have maintained that the rise in prices is due to the scarcity of food. This contention has by no means been substantiated by the official returns just published. Statistics show that there is enough food locked in cold storage plants to feed the whole population of the United States for months. The value of the stock is shown to be \$3,000,000,000, and it is clear that enormous quantities of beef and other necessities of life have been hoarded up for some time. Cold storage warehouses the country over hold the total number of 14,000,000 cattle carcasses.

1935: A Lieutenant in the L'borry
PARIS—Lord Lee of Fareham pleads for the discontinuance of "Americanisms" in the making of British sound films. His countrymen are puzzled, he maintains, by such phrases as being "bumped off" or "taken for a buggy ride." But what about our own people who are nonplussed not only by words commonly used in England and almost unknown in America, but by pronunciations which differ from ours? Can Americans be expected to know that a bowler is a derby hat, or even that a pub is almost the same as a post-prohibition drinking place? Who would realize on hearing that the "lieutenant is in the l'borry" that the lieutenant is in the laboratory—even though what he might be doing there may be as much a mystery as Mark Twain's bird that was in the blacksmith's shop on account of the rain?

block the delayed emplacement of Euromissiles in Belgium and the Netherlands. That could undermine West German deployment, which is



The writer, a member of The New York Times Editorial Board, is on leave and writing a book on the Western alliance as a visiting fellow at the Royal Institute of International Affairs in London.

Begins to Scare t

the Crew

Because the high value of the dollar has made American exports

annually. The current deficit, according to the U.S. Treasury, will be \$150 billion this year, up from \$140 billion by 1988.



cost of electing Mr. Reagan twice to the presidency is as great as it is unappreciated. Mr. Reagan's "bill

ROGER GUY,
Paris.

ROGER COE,
Paris.


of Soviet political alignments in the succession period and on the political climate facing any serious reformer. (He will almost certainly have to dis-

One of the central economic dilemmas facing any new Soviet leader will involve military spending. Significant

every New Yorker's nightmare of being trapped in a runaway subway full of crazies — with "Death Wish," about "a New Yorker stalking the highways" and also parks and streets.

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SCIENCE

Chemistry-of-Hibernation Researchers Can't Let Sleeping Bears Lie

By Walker Sullivan
New York Times Service

TOM BECK, homing in on the radio-beacon collar of a sleeping black bear, digs through 10 feet of snow to reach the entrance to its den. He takes blood samples and rapidly retreats, as part of a revealing new study of the chemistry of hibernation.

If the dangerous bear wakes, Mr. Beck crawls back out of the cave as fast as he can.

"I never wear a gun on my belt," he said. "There would be no time to use one." But he adds that the bears normally don't follow because "they only want to get you out."

Over the past three years, analysis of blood samples that he has collected from the bears during hibernation and in midsummer has disclosed a basic seasonal change in body chemistry. It shows an adaptation to prolonged starvation so efficient that, when the bears finally awaken, they search for food only half-heartedly.

Thomas D.L. Beck is a wildlife specialist with the Colorado Department of Natural Resources. His samples, collected from black bears in the Black Mesa-Crystal Creek area of western Colorado, near his hometown of Crawford, have been analyzed by Dr. Ralph

A. Nelson and Dianne L. Steiger of the Carle Foundation Hospital in Urbana, Illinois.

Their findings, reported in a recent issue of *Science*, support the view that bears "are, perhaps, the most successful at starving of any mammal."

Although in winter a hibernating bear burns the energy equivalent of 4,000 food calories a day, it exists for three months or more without food or water. Human beings can do so for only a limited number of days.

Researchers have long sought to learn what enables some animals to endure extremely low tempera-

tures, hoping that such knowledge might be used to induce suspended animation in human beings for surgery, cold climate survival or long space journeys.

In hibernation the body temperature of bears remains close to normal. This contrasts with "true hibernators" whose temperature drops close to freezing.

The blood analyses have shown that the bears curtail their production of urea, which is normally delivered by blood to the kidneys and excreted. They also appear to retain and recycle creatinine, a substance that is released as muscles consume energy. The result is a sharp increase in the blood's content of creatinine relative to urea.

In summer the urea-creatinine ratio, as in other mammals, is 22 or more parts urea to one part creatinine. In winter it drops to 10 parts urea or less, and until spring the bear does not eat, drink, defecate or urinate.

The most surprising discovery has been that the urea-creatinine ratio characteristic of hibernation begins to appear weeks before hibernation, in August and September. The bears begin eating less, but not until late October or early November do most of them enter their dens and go to sleep.

The low urea-to-creatinine ratio persists after they awaken in the spring. Three weeks after emerging from hibernation, a grizzly bear may still eat no food and drink little water.

"The bear apparently begins preparation for denning while food is available," the researchers reported, "and the metabolic adaptations responsible for freedom from the need for food and water persist into spring when food is usually scarce."

The findings were based on an analysis of 76 blood samples from 48 anesthetized bears. The animals were captured in summer with spring-activated leg snares baited with meat. To prevent trapped bears from damaging their legs the snares were fastened to logs that could be dragged short distances and the snares were checked daily.

Dr. Nelson said that none of the bears were seriously hurt. Mr. Beck said he now has 39 bears fitted with radio-beacon collars so that they can be tracked to their dens during hibernation. He hopes to find at least 32 of them in their dens before spring.

"I get in real quiet and slow," he said in an interview, adding that the bear "may lift its head up and look at me" or it may still be asleep. With a needle at the end of a pole he tranquilizes the animal.

Only once, in fact, has he had difficulty escaping a charging bear. "I punched it in the nose," he said.

Dr. George Edgar Folk Jr. of the University of Iowa, working in Alaska, has found that the pulse rates of hibernating bears drop sharply. He has fitted the animals with radio transmitters that transmit their pulse rates throughout the winter. The normal summer pulse rate is 40 to 50 beats a minute, depending on the bear's age, he said, but during hibernation it drops to 8 or 10.

This, he added, is true of all three species native to northern Alaska: grizzly, black and polar bears. He explained that the giant bears of Alaska, often known as Kodiak or Alaska brown bears, are, in fact, well-fed grizzlies.

When small, inland grizzlies raised on vegetation are fed a diet comparable to that of the salmon-eating coast species, they get just as big. When offspring of the giant coastal variety are sent to zoos and eat less heartily, they do not get very large.

That bears are not true hibernators in terms of their body temperature was established in the 1950s by the experiments of Dr. Raymond J. Hock at the Arctic Aeromedical Laboratory near Fairbanks, Alaska. When animals like woodchucks and hedgehogs hibernate, their body temperature drops close to freezing and their pulse rate falls to little more than one beat per minute. The human heart begins to flutter or fibrillate when the body temperature falls to about 78 degrees Fahrenheit (26 Centigrade).

Dr. Hock, in an interview in the 1950s, described his efforts to obtain the rectal temperatures of hibernating bears. He said he was fortunately unsuccessful in his search for bear dens in the Brooks Range. Baring his arm, he said, "These scars were from tame bears." When a hibernating bear is awakened, he added, "he tends to be cross as a bear."

One challenge was getting a captive bear to its feet during hibernation so a temperature-recording device could be inserted. The solution, he explained, was to take advantage of a passion bears have for maraschino cherries. A bucket partly filled with the cherries was held near the nose of each sleeping bear.

As it awakened the bucket was slowly pulled away, tempting the bear to arise, but after the thermometer was inserted and before the bear was fully awake, the bucket was totally withdrawn, allowing hibernation to resume. It was shown that the body temperature never sinks very low.



Researcher Beck with hibernating subject.

With Halley's Comet Due Shortly, Telescope Business Is Looking Up

By Louis Sahagun
Los Angeles Times Service

SILVIA SWEANEY has always dreamed of owning a telescope, and now she figures there is a good reason to buy one.

"I was looking to spend \$1,200," said Sweeney, 34, ogling the gleaming tubes of mostly expensive telescopes on display at a Scope City store in Costa Mesa, California. "Because of Halley's comet, I'm going to spend \$2,400, which really means \$3,000, including accessories."

People such as Sweeney have caught Scope City President Maurice Weiss, among other retailers, pleasantly off guard. The comet, which appears near Earth once every 76 years, won't be visible to the naked eye until about December, but customers already are flooding retailers with requests for amateur astronomical equipment.

Indeed, telescope manufacturers large and small last year launched new model lines with names such as Comet Catcher, Comet Seeker, Comet Finder and even Halley scope in anticipation of what they expect to be their best year ever.

The boom in sales of telescopes and binoculars reflects what happened the last time Halley's comet came near the sun in 1910. An article that appeared in *The New York Times* on May 1, 1910, for example, said that demand for optical instruments almost exhausted supply and sent retailers scurrying for products aimed at the short-term market.

But since quality instruments cannot be cranked out like Cabbage Patch dolls, many manufacturers these days are worried that they will not be able to meet the demands of retailers already clamoring for more.

"Will we meet demand?" asked Kevin Ritschel, vice president of marketing for Celestron International Corp., which is based in Torrance, California, and has made its reputation selling more expensive products for serious amateurs. "Probably not. I don't think anyone will."

Nonetheless, he added, "I want to ride the tail of that comet as much as I can." Last year, Celestron broke with tradition and introduced a lower-priced "Cometron" and "Comet Catcher" line aimed at the mass market.

"We're trying like hell to make as many as we can," he said. "We've already increased production 50 percent."

"Halley's comet fever is already here," agreed John Diebel, president of Meade Instruments of Costa Mesa, which is marketing a Comet Seeker line of telescopes. "The earliness with which this has caught on, caught us by surprise. Meade normally sells about 2,000 telescopes a month nation-



wide, Diebel said, and he expects that to increase to 4,000 a month "within the next three months."

But not everyone is happy that the telescope business is looking up. "I basically try to discourage people from buying telescopes," said astronomer Stephen Edberg of the Jet Propulsion Laboratory near here, which is headquarters for International Halley Watch, an organization that will be organizing observations of the comet.

"Using a telescope, just like using a computer, takes practice and persistence," Edberg said. "The fact of the matter is, unaided eyes or a pair of binoculars are all anybody is going to need."

What is more, he said, "John and Mary Smith standing in their front yard in a suburban area are simply not going to see Halley's comet." He said that Halley's comet is going to be farther from the earth than it was during its last visit, and because of its orbital configuration, it will be best seen in the Southern Hemisphere. He added that "light pollution," which is light from man-made sources which impairs telescope viewing at night, will make the comet at best only a faint, ghostly apparition.

Even under ideal conditions, said Alan M. MacRobert, editorial director of the books and products division of Cambridge, Massachusetts-based Sky & Telescope magazine, "Venus will be over 100 times brighter" than Halley's comet.

Nonetheless, for telescope manufacturers and retailers, Halley's comet is to the astronomy business what the Olympics are to sports—a regular international event that few will want to miss.

IN BRIEF

Second-Hand Smoke Found Deadly

WASHINGTON (UPI) — An Environmental Protection Agency spokesman says its analysis supports some of the conclusions of an independent study that found hundreds of people in the United States die every year of cancer caused by breathing other people's tobacco smoke.

The study by James Repace, an EPA policy analyst, and Alfred Lowrey, a chemist at the Naval Research Laboratory, concluded that second-hand tobacco smoke is one of the most deadly indoor air pollutants. They estimated that between 500 and 5,000 non-smokers die each year of lung cancer caused by breathing second-hand—or "passive"—smoke. The two conducted the studies independently, not for the government, but the EPA's Carcinogen Assessment Group reviewed their findings.

William Toobey of the Tobacco Institute criticized the findings, saying that Dr. Repace, a physicist, was "out of his area of expertise here."

Adhesive Tape Helpful in Psoriasis

BALTIMORE (NYT) — A chance observation showed that the adhesive portion of a Band-Aid is helpful in treating psoriasis, a mysterious and sometimes severe skin disease, according to Ronald N. Shore of Johns Hopkins University.

Dr. Shore said that he applied a Band-Aid after taking a small skin sample from the center of one psoriatic plaque, and "when the Band-Aid was removed, it was noted that the part of the psoriatic plaque that had been covered by the adhesive portions of the Band-Aid had cleared totally. The part of the plaque that had been covered by the pad remained unchanged."

"Because of this impressive response, adhesive tape was applied as a treatment to the remaining plaques on both elbows, and these lesions cleared also."

Dr. Shore said that "prolonged application of tape . . . will probably prove most beneficial when combined with other therapies, since lesions in only a minority of patients clear totally when it is used alone."

Japan's 'Expo 85': History, High Tech

TOKYO (Reuters) — Europe old and new, from Renaissance art and Paris sewers to rockets and satellites, will form a major part of "Expo 85," an international science exhibition opening near here next month.

About 20 million visitors, 95 per cent of them Japanese, are expected to see the exhibition during its six-month run from March 16 at Tsukuba Science City, 45 miles (70 kilometers) north of Tokyo and home of many Japanese research institutions.

For Japan itself, "Expo 85" will be a glittering shop window for its electronics companies.

Atom Smasher Probes Meteorites

LOS ALAMOS, New Mexico (NYT) — Physicists and geochemists at the Los Alamos National Laboratory are using a new technique called a nuclear probe to study elements in meteorite samples that hold clues about the formation of the solar system.

A Van de Graaf accelerator, or atom smasher, is used to generate a million-electron-volt beam of protons, or positively charged nuclear particles. The beam is projected onto specimens, and X-rays are produced that characterize the distribution and quantity of material in the specimens, which in turn can lead to information about temperature and heating and cooling rates under which minerals solidified to form the planets.

Carl Maggio, the physicist who designed the Los Alamos device, said the nuclear probe, a technique first developed in Britain a decade ago and since improved on, is 100 times more sensitive than standard electron probes, which generate beams of electrons, or negatively charged particles.

Cat Vaccine May Yield Cancer Clues

CHICAGO (Reuters) — A vaccine for cats, claimed to be the first to prevent cancer in mammals, could provide clues to fighting cancer and immune system problems in man, its developers say.

The vaccine is designed to prevent feline leukemia, a leading cause of death in cats. Distribution to veterinary clinics in the United States and Canada began last month.

Ohio State University, where the vaccine was developed by Dr. Richard Olsen, said the methods used to create the vaccine "may provide a clue to developing a vaccine for AIDS (acquired immune deficiency syndrome)" and hold the potential for developing vaccines for use against various kinds of human cancer.

Lichens Monitor Air Pollution

SALT LAKE CITY, Utah (NYT) — One of nature's most unusual organisms, the lichen, is helping a Brigham Young University professor keep tabs on air pollution in two National Parks.

Lichens, essentially dual plants composed of both a fungus and an alga living in a unique symbiotic relationship, grow primarily as moldlike adhesions on rocks, tree bark and soil. They are hypersensitive to toxic substances in the air.

In a research program financed by the National Park Service and the Federal Bureau of Land Management, Dr. Larry St. Clair, a botanist, has set up lichen monitoring systems in Utah and Arizona. By keeping track of the health and abundance of lichens, and by using a newly devised laboratory test, he is able to assess changes in air quality.

New Gold Recovery Method Spreads

NEW YORK (AP) — Heap leaching, a new method of extracting gold from ore that can cut recovery costs by 50 percent or more, may cause a revolution in gold mining technique, according to *Business Week* magazine.

It says that in 1979, only 6 percent of the gold produced in the United States was recovered by this method, that the figure today is 25 percent and that "some specialists think that by the turn of the century, heap leaching may be the country's primary method of extracting gold."

In heap leaching, "the ore is crushed into pieces . . . and dumped onto an impermeable surface. . . . It is sprayed with a solution of sodium cyanide, sodium hydroxide, and calcium carbonate. The watery solution seeps through the heap, leaching out the precious metal."

Beware of the Killer Palms

By Bayard Webster
New York Times Service

IN MOST of the world's urban areas the major cause of accidental deaths and injuries is the automobile. But in remote rural communities where there are no cars or roads, trees cause proportionately as many casualties.

In a recent issue of the *British Medical Journal*, a four-year study of admissions to the Provincial Hospital in Milne Bay Province, Papua New Guinea, showed that falls from trees and other tree-related incidents were the most common cause of injuries, accounting for 41 percent of admissions for wounds and injuries.

The types of accidents included falling off a tree while climbing, being struck by a falling tree limb or by a falling coconut, tripping over fallen tree limbs, and being struck by a crashing tree while trying to cut it down. The tree usually was the coconut palm.

The researchers noted that most village tree climbers did not use

safety equipment and that some of the palm trees they climbed were 90 feet (about 28 meters) tall.

The researchers noted that the majority of deaths occurred after falls from trees.

The researchers concluded, "A tropical island is imagined as reclining beneath its trees, languidly plucking the ever-present harvest. The truth is that most villagers work hard planting their gardens and often risk their lives climbing high to reap the produce of their tallest trees."

Fish Breed Faster In A-Plant Water

The Associated Press

ANTWERP, Belgium — Scientists breeding eel and bass in the cooling water of a nuclear plant say they have greatly speeded up the breeding process. They say they hope to turn their experiment into a commercial operation.

The Leuven University researchers said they found that eel and bass developed up to five times more quickly in the warmer and oxygen-enriched cooling water of the Doel plant outside Antwerp.

Professor Frans Ollivier, head of the research project, said no traces of radioactivity were found in the cooling water or in the fish. "We only have to make a feasibility and market study before we can start looking for investors," he said.

Black Lung Disease May Damage the Brain

United Press International

WILLIAMSON, West Virginia — Coal miners with black lung disease could suffer brain damage, a psychologist says.

Dr. Stanley Rudin said preliminary evidence suggests airborne particles that clog the lungs could shut off oxygen to the brain.

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227.18	225.53	226.72	226.95	+ 0.10%

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Algeria	1.20	1.20	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21</
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Spain	1.28	1.30	1.32	1.34	1.36	1.38	1.40	1.42	1.44	1.46	1.48	1.50	1.52	1.54	1.56	1.58	1.60	1.62	1.64	1.66	1.68	1.70	1.72	1.74	1.76	1.78	1.80	1.82	1.84	1.86	1.88	1.90	1.92	1.94	1.96	1.98	2.00	2.02	2.04	2.06	2.08	2.10	2.12	2.14	2.16	2.18	2.20	2.22	2.24	2.26	2.28	2.30	2.32	2.34	2.36	2.38	2.40	2.42	2.44	2.46	2.48	2.50	2.52	2.54	2.56	2.58	2.60	2.62	2.64	2.66	2.68	2.70	2.72	2.74	2.76	2.78	2.80	2.82	2.84	2.86	2.88	2.90	2.92	2.94	2.96	2.98	3.00	3.02	3.04	3.06	3.08	3.10	3.12	3.14	3.16	3.18	3.20	3.22	3.24	3.26	3.28	3.30	3.32	3.34	3.36	3.38	3.40	3.42	3.44	3.46	3.48	3.50	3.52	3.54	3.56	3.58	3.60	3.62	3.64	3.66	3.68	3.70	3.72	3.74	3.76	3.78	3.80	3.82	3.84	3.86	3.88	3.90	3.92	3.94	3.96	3.98	4.00	4.02	4.04	4.06	4.08	4.10	4.12	4.14	4.16	4.18	4.20	4.22	4.24	4.26	4.28	4.30	4.32	4.34	4.36	4.38	4.40	4.42	4.44	4.46	4.48	4.50	4.52	4.54	4.56	4.58	4.60	4.62	4.64	4.66	4.68	4.70	4.72	4.74	4.76	4.78	4.80	4.82	4.84	4.86	4.88	4.90	4.92	4.94	4.96	4.98	5.00	5.02	5.04	5.06	5.08	5.10	5.12	5.14	5.16	5.18	5.20	5.22	5.24	5.26	5.28	5.30	5.32	5.34	5.36	5.38	5.40	5.42	5.44	5.46	5.48	5.50	5.52	5.54	5.56	5.58	5.60	5.62	5.64	5.66	5.68	5.70	5.72	5.74	5.76	5.78	5.80	5.82	5.84	5.86	5.88	5.90	5.92	5.94	5.96	5.98	6.00	6.02	6.04	6.06	6.08	6.10	6.12	6.14	6.16	6.18	6.20	6.22	6.24	6.26	6.28	6.30	6.32	6.34	6.36	6.38	6.40	6.42	6.44	6.46	6.48	6.50	6.52	6.54	6.56	6.58	6.60	6.62	6.64	6.66	6.68	6.70	6.72	6.74	6.76	6.78	6.80	6.82	6.84	6.86	6.88	6.90	6.92	6.94	6.96	6.98	7.00	7.02	7.04	7.06	7.08	7.10	7.12	7.14	7.16	7.18	7.20	7.22	7.24	7.26	7.28	7.30	7.32	7.34	7.36	7.38	7.40	7.42	7.44	7.46	7.48	7.50	7.52	7.54	7.56	7.58	7.60	7.62	7.64	7.66	7.68	7.70	7.72	7.74	7.76	7.78	7.80	7.82	7.84	7.86	7.88	7.90	7.92	7.94	7.96	7.98	8.00	8.02	8.04	8.06	8.08	8.10	8.12	8.14	8.16	8.18	8.20	8.22	8.24	8.26	8.28	8.30	8.32	8.34	8.36	8.38	8.40	8.42	8.44	8.46	8.48	8.50	8.52	8.54	8.56	8.58	8.60	8.62	8.64	8.66	8.68	8.70	8.72	8.74	8.76	8.78	8.80	8.82	8.84	8.86	8.88	8.90	8.92	8.94	8.96	8.98	9.00	9.02	9.04	9.06	9.08	9.10	9.12	9.14	9.16	9.18	9.20	9.22	9.24	9.26	9.28	9.30	9.32	9.34	9.36	9.38	9.40	9.42	9.44	9.46	9.48	9.50	9.52	9.54	9.56	9.58	9.60	9.62	9.64	9.66	9.68	9.70	9.72	9.74	9.76	9.78	9.80	9.82	9.84	9.86	9.88	9.90	9.92	9.94	9.96	9.98	10.00	10.02	10.04	10.06	10.08	10.10	10.12	10.14	10.16	10.18	10.20	10.22	10.24	10.26	10.28	10.30	10.32	10.34	10.36	10.38	10.40	10.42	10.44	10.46	10.48	10.50	10.52	10.54	10.56	10.58	10.60	10.62	10.64	10.66	10.68	10.70	10.72	10.74	10.76	10.78	10.80	10.82	10.84	10.86	10.88	10.90	10.92	10.94	10.96	10.98	11.00	11.02	11.04	11.06	11.08	11.10	11.12	11.14	11.16	11.18	11.20	11.22	11.24	11.26	11.28	11.30	11.32	11.34	11.36	11.38	11.40	11.42	11.44	11.46	11.48	11.50	11.52	11.54	11.56	11.58	11.60	11.62	11.64	11.66	11.68	11.70	11.72	11.74	11.76	11.78	11.80	11.82	11.84	11.86	11.88	11.90	11.92	11.94	11.96	11.98	12.00	12.02	12.04	12.06	12.08	12.10	12.12	12.14	12.16	12.18	12.20	12.22	12.24	12.26	12.28	12.30	12.32	12.34	12.36	12.38	12.40	12.42	12.44	12.46	12.48	12.50	12.52	12.54	12.56	12.58	12.60	12.62	12.64	12.66	12.68	12.70	12.72	12.74	12.76	12.78	12.80	12.82	12.84	12.86	12.88	12.90	12.92	12.94	12.96	12.98	13.00	13.02	13.04	13.06	13.08	13.10	13.12	13.14	13.16	13.18	13.20	13.22	13.24	13.26	13.28	13.30	13.32	13.34	13.36	13.38	13.40	13.42	13.44	13.46	13.48	13.50	13.52	13.54	13.56	13.58	13.60	13.62	13.64	13.66	13.68	13.70	13.72	13.74	13.76	13.78	13.80	13.82	13.84	13.86	13.88	13.90	13.92	13.94	13.96	13.98	14.00	14.02	14.04	14.06	14.08	14.10	14.12	14.14	14.16	14.18	14.20	14.22	14.24	14.26	14.28	14.30	14.32	14.34	14.36	14.38	14.40	14.42	14.44	14.46	14.48	14.50	14.52	14.54	14.56	14.58	14.60	14.62	14.64	14.66	14.68	14.70	14.72	14.74	14.76	14.78	14.80	14.82	14.84	14.86	14.88	14.90	14.92	14.94	14.96	14.98	15.00	15.02	15.04	15.06	15.08	15.10	15.12	15.14	15.16	15.18	15.20	15.22	15.24	15.26	15.28	15.30	15.32	15.34	15.36	15.38	15.40	15.42	15.44	15.46	15.48	15.50	15.52	15.54	15.56	15.58	15.60	15.62	15.64	15.66	15.68	15.70	15.72	15.74	15.76	15.78	15.80	15.82	15.84	15.86	15.88	15.90	15.92	15.94	15.96	15.98	16.00	16.02	16.04	16.06	16.08	16.10	16.12	16.14	16.16	16.18	16.20	16.22	16.24	16.26	16.28	16.30	16.32	16.34	16.36	16.38	16.40	16.42	16.44	16.46	16.48	16.50	16.52	16.54	16.56	16.58	16.60	16.62	16.64	16.66	16.68	16.70	16.72	16.74	16.76	16.78	16.80	16.82	16.84	16.86	16.88	16.90	16.92	16.94	16.96	16.98	17.00	17.02	17.04	17.06	17.08	17.10	17.12	17.14	17.16	17.18	17.20	17.22	17.24	17.26	17.28	17.30	17.32	17.34	17.36	17.38	17.40	17.42	17.44	17.46	17.48	17.50	17.52	17.54	17.56	17.58	17.60	17.62	17.64	17.66	17.68	17.70	17.72	17.74	17.76	17.78	17.80	17.82	17.84	17.86	17.88	17.90	17.92	17.94	17.96	17.98	18.00	18.02	18.04	18.06	18.08	18.10	18.12	18.14	18.16	18.18	18.20	18.22	18.24	18.26	18.28	18.30	18.32	18.34	18.36	18.38	18.40	18.42	18.44	18.46	18.48	18.50	18.52	18.54	18.56	18.58	18.60	18.62	18.64	18.66	18.68	18.70	18.72	18.74	18.76	18.78	18.80	18.82	18.84	18.86	18.88	18.90	18.92	18.94	18.96	18.98	19.00	19.02	19.04	19.06	19.08	19.10	19.12	19.14	19.16	19.18	19.20	19.22	19.24	19.26	19.28	19.30	19.32	19.34	19.36	19.38	19.40	19.42	19.44	19.46	19.48	19.50	19.52	19.54	19.56	19.58	19.60	19.62	19.64	19.66	19.68	19.70	19.72	19.74	19.76	19.78	19.80	19.82	19.84	19.86	19.88	19.90	19.92	19.94	19.96	19.98	20.00	20.02	20.04	20.06	20.08	20.10	20.12	20.14	20.16	20.18	20.20	20.22	20.24	20.26	20.28	20.30	20.32	20.34	20.36	20.38	20.40	20.42	20.44	20.46	20.48	20.50	20.52	20.54	20.56	20.58	20.60	20.62	20.64	20.66	20.68	20.70	20.72	20.74	20.76	20.78	20.80	20.82	20.84	20.86	20.88	20.90	20.92	20.94	20.96	20.98	21.00	21.02	21.04	21.06	21.08	21.10	21.12	21.14	21.16	21.18	21.20	21.22	21.24	21.26	21.28	21.30	21.32	21.34	21.36	21.38	21.40	21.42	21.44	21.46	21.48	21.50	21.52	21.54	21.56	21.58	21.60	21.62	21.64	21.66	21.68	21.70	21.72	21.74	21.76	21.78	21.80	21.82	21.84	21.86	21.88	21.90	21.92	21.94	21.96	21.98	22.00	22.02	22.04	22.06	22.08	22.10	22.12	22.14	22.16	22.18	22.20	22.22	22.24	22.26	22.28	22.30	22.32	22.34	22.36	22.38	22.40	22.42	22.44	22.46	22.48	22.50	22.52	22.54	22.56	22.58	22.60	22.62	22.64	22.66	22.68	22.70	22.72	22.74	22.76	22.78	22.80	22.82	22.84	22.86	22.88	22.90	22.92	22.94	22.96	22.98	23.00	23.02	23.04	23.06	23.08	23.10	23.12	23.14	23.16	23.18	23.20	23.22	23.24	23.26	23.28	23.30	23.32	23.34	23.36	23.38	23.40	23.42	23.44	23.46	23.48	23.50	23.52	23.54	23.56	23.58	23.60	23.62	23.64	23.66	23.68	23.70	23.72	23.74	23.76	23.78	23.80	23.82	23.84	23.86	23.88	23.90	23.92	23.94	23.96	23.98	24.00	24.02	24.04	24.06	24.08	24.10	24.12	24.14	24.16	24.18	24.20	24.22	24.24	24.26	24.28	24.30	24.32	24.34	24.36	24.38	24.40	24.42	24.44	24.46	24.48	24.50	24.52	24.54	24.56	24.58	24.60	24.62	24.64	24.66	24.68	24.70	24.72	24.74	24.76	24.78	24.80	24.82	24.84	24.86	24.88	24.90	24.92	24.94	24.96	24.98	25.00	25.02	25.04	25.06	25.08	25.10	25.12	25.14	25.16	25.18	25.20	25.22	25.24	25.26	25.28	25.30	25.32	25.34	25.36	25.38	25.40	25.42	25.44	25.46	25.48	25.50	25.52	25.54	25.56	25.58	25.60	25.62	25.64	25.66	25.68	25.70	25.72	25.74	25.76	25.78	25.80	25.82	25.84	25.86	25.88	25.90	25.92	25.94	25.96	25.98	26.00	26.02	26.04	26.06	26.08	26.10	26.12	26.14	26.16	26.18	26.20	26.22	26.24	26.26	26.28	26.30	26.32	26.34	26.36	26.38	26.40	26.42	26.44	26.46	26.48	26.50	26.52	26.54	26.56	26.58	26.60	26.62	26.64	26.66	26.68	26.70	26.72	26.74	26.76	26.78	26.80	26.82	26.84	26.86	26.88
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13.50	14.71	15.92	17.13	18.34	19.55	20.76	21.97	23.18	24.39	25.60	26.81	28.02	29.23	30.44	31.65	32.86	34.07	35.28	36.49	37.70	38.91	40.12	41.33	42.54	43.75	44.96	46.17	47.38	48.59	49.80	51.01	52.22	53.43	54.64	55.85	57.06	58.27	59.48	60.69	61.90	63.11	64.32	65.53	66.74	67.95	69.16	70.37	71.58	72.79	74.00	75.21	76.42	77.63	78.84	80.05	81.26	82.47	83.68	84.89	86.10	87.31	88.52	89.73	90.94	92.15	93.36	94.57	95.78	96.99	98.20	99.41	100.62	101.83	103.04	104.25	105.46	106.67	107.88	109.09	110.30	111.51	112.72	113.93	115.14	116.35	117.56	118.77	119.98	121.19	122.40	123.61	124.82	126.03	127.24	128.45	129.66	130.87	132.08	133.29	134.50	135.71	136.92	138.13	139.34	140.55	141.76	142.97	144.18	145.39	146.60	147.81	149.02	150.23	151.44	152.65	153.86	155.07	156.28	157.49	158.70	159.91	161.12	162.33	163.54	164.75	165.96	167.17	168.38	169.59	170.80	172.01	173.22	174.43	175.64	176.85	178.06	179.27	180.48	181.69	182.90	184.11	185.32	186.53	187.74	188.95	190.16	191.37	192.58	193.79	195.00	196.21	197.42	198.63	199.84	201.05	202.26	203.47	204.68	205.89	207.10	208.31	209.52	210.73	211.94	213.15	214.36	215.57	216.78	217.99	219.20	220.41	221.62	222.83	224.04	225.25	226.46	227.67	228.88	230.09	231.30	232.51	233.72	234.93	236.14	237.35	238.56	239.77	240.98	242.19	243.40	244.61	245.82	247.03	248.24	249.45	250.66	251.87	253.08	254.29	255.50	256.71	257.92	259.13	260.34	261.55	262.76	263.97	265.18	266.39	267.60	268.81	270.02	271.23	272.44	273.65	274.86	276.07	277.28	278.49	279.70	280.91	282.12	283.33	284.54	285.75	286.96	288.17	289.38	290.59	291.80	293.01	294.22	295.43	296.64	297.85	299.06	300.27	301.48	302.69	303.90	305.11	306.32	307.53	308.74	309.95	311.16	312.37	313.58	314.79	316.00	317.21	318.42	319.63	320.84	322.05	323.26	324.47	325.68	326.89	328.10	329.31	330.52	331.73	332.94	334.15	335.36	336.57	337.78	338.99	340.20	341.41	342.62	343.83	345.04	346.25	347.46	348.67	349.88	351.09	352.30	353.51	354.72	355.93	357.14	358.35	359.56	360.77	361.98	363.19	364.40	365.61	366.82	368.03	369.24	370.45	371.66	372.87	374.08	375.29	376.50	377.71	378.92	380.13	381.34	382.55	383.76	384.97	386.18	387.39	388.60	389.81	391.02	392.23	393.44	394.65	395.86	397.07	398.28	399.49	400.70	401.91	403.12	404.33	405.54	406.75	407.96	409.17	410.38	411.59	412.80	414.01	415.22	416.43	417.64	418.85	420.06	421.27	422.48	423.69	424.90	426.11	427.32	428.53	429.74	430.95	432.16	433.37	434.58	435.79	437.00	438.21	439.42	440.63	441.84	443.05	444.26	445.47	446.68	447.89	449.10	450.31	451.52	452.73	453.94	455.15	456.36	457.57	458.78	459.99	461.20	462.41	463.62	464.83	466.04	467.25	468.46	469.67	470.88	472.09	473.30	474.51	475.72	476.93	478.14	479.35	480.56	481.77	482.98	484.19	485.40	486.61	487.82	489.03	490.24	491.45	492.66	493.87	495.08	496.29	497.50	498.71	500.00
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275	9.1	1	282	20.1	1	289	20.1	1	296	17.5	1	303	17.5	1	310	17.5	1	317	17.5	1	324	17.5	1	331	17.5	1	338	17.5	1	345	17.5	1	352	17.5	1	359	17.5	1	366	17.5	1	373	17.5	1	380	17.5	1	387	17.5	1	394	17.5	1	401	17.5	1	408	17.5	1	415	17.5	1	422	17.5	1	429	17.5	1	436	17.5	1	443	17.5	1	450	17.5	1	457	17.5	1	464	17.5	1	471	17.5	1	478	17.5	1	485	17.5	1	492	17.5	1	499	17.5	1	506	17.5	1	513	17.5	1	520	17.5	1	527	17.5	1	534	17.5	1	541	17.5	1	548	17.5	1	555	17.5	1	562	17.5	1	569	17.5	1	576	17.5	1	583	17.5	1	590	17.5	1	597	17.5	1	604	17.5	1	611	17.5	1	618	17.5	1	625	17.5	1	632	17.5	1	639	17.5	1	646	17.5	1	653	17.5	1	660	17.5	1	667	17.5	1	674	17.5	1	681	17.5	1	688	17.5	1	695	17.5	1	702	17.5	1	709	17.5	1	716	17.5	1	723	17.5	1	730	17.5	1	737	17.5	1	744	17.5	1	751	17.5	1	758	17.5	1	765	17.5	1	772	17.5	1	779	17.5	1	786	17.5	1	793	17.5	1	800	17.5	1	807	17.5	1	814	17.5	1	821	17.5	1	828	17.5	1	835	17.5	1	842	17.5	1	849	17.5	1	856	17.5	1	863	17.5	1	870	17.5	1	877	17.5	1	884	17.5	1	891	17.5	1	898	17.5	1	905	17.5	1	912	17.5	1	919	17.5	1	926	17.5	1	933	17.5	1	940	17.5	1	947	17.5	1	954	17.5	1	961	17.5	1	968	17.5	1	975	17.5	1	982	17.5	1	989	17.5	1	996	17.5	1	1003	17.5	1	1010	17.5	1	1017	17.5	1	1024	17.5	1	1031	17.5	1	1038	17.5	1	1045	17.5	1	1052	17.5	1	1059	17.5	1	1066	17.5	1	1073	17.5	1	1080	17.5	1	1087	17.5	1	1094	17.5	1	1101	17.5	1	1108	17.5	1	1115	17.5	1	1122	17.5	1	1129	17.5	1	1136	17.5	1	1143	17.5	1	1150	17.5	1	1157	17.5	1	1164	17.5	1	1171	17.5	1	1178	17.5	1	1185	17.5	1	1192	17.5	1	1199	17.5	1	1206	17.5	1	1213	17.5	1	1220	17.5	1	1227	17.5	1	1234	17.5	1	1241	17.5	1	1248	17.5	1	1255	17.5	1	1262	17.5	1	1269	17.5	1	1276	17.5	1	1283	17.5	1	1290	17.5	1	1297	17.5	1	1304	17.5	1	1311	17.5	1	1318	17.5	1	1325	17.5	1	1332	17.5	1	1339	17.5	1	1346	17.5	1	1353	17.5	1	1360	17.5	1	1367	17.5	1	1374	17.5	1	1381	17.5	1	1388	17.5	1	1395	17.5	1	1402	17.5	1	1409	17.5	1	1416	17.5	1	1423	17.5	1	1430	17.5	1	1437	17.5	1	1444	17.5	1	1451	17.5	1	1458	17.5	1	1465	17.5	1	1472	17.5	1	1479	17.5	1	1486	17.5	1	1493	17.5	1	1500	17.5	1	1507	17.5	1	1514	17.5	1	1521	17.5	1	1528	17.5	1	1535	17.5	1	1542	17.5	1	1549	17.5	1	1556	17.5	1	1563	17.5	1	1570	17.5	1	1577	17.5	1	1584	17.5	1	1591	17.5	1	1598	17.5	1	1605	17.5	1	1612	17.5	1	1619	17.5	1	1626	17.5	1	1633	17.5	1	1640	17.5	1	1647	17.5	1	1654	17.5	1	1661	17.5	1	1668	17.5	1	1675	17.5	1	1682	17.5	1	1689	17.5	1	1696	17.5	1	1703	17.5	1	1710	17.5	1	1717	17.5	1	1724	17.5	1	1731	17.5	1	1738	17.5	1	1745	17.5	1	1752	17.5	1	1759	17.5	1	1766	17.5	1	1773	17.5	1	1780	17.5	1	1787	17.5	1	1794	17.5	1	1801	17.5	1	1808	17.5	1	1815	17.5	1	1822	17.5	1	1829	17.5	1	1836	17.5	1	1843	17.5	1	1850	17.5	1	1857	17.5	1	1864	17.5	1	1871	17.5	1	1878	17.5	1	1885	17.5	1	1892	17.5	1	1899	17.5	1	1906	17.5	1	1913	17.5	1	1920	17.5	1	1927	17.5	1	1934	17.5	1	1941	17.5	1	1948	17.5	1	1955	17.5	1	1962	17.5	1	1969	17.5	1	1976	17.5	1	1983	17.5	1	1990	17.5	1	1997	17.5	1	2004	17.5	1	2011	17.5	1	2018	17.5	1	2025	17.5	1	2032	17.5	1	2039	17.5	1	2046	17.5	1	2053	17.5	1	2060	17.5	1	2067	17.5	1	2074	17.5	1	2081	17.5	1	2088	17.5	1	2095	17.5	1	2102	17.5	1	2109	17.5	1	2116	17.5	1	2123	17.5	1	2130	17.5	1	2137	17.5	1	2144	17.5	1	2151	17.5	1	2158	17.5	1	2165	17.5	1	2172	17.5	1	2179	17.5	1	2186	17.5	1	2193	17.5	1	2200	17.5	1	2207	17.5	1	2214	17.5	1	2221	17.5	1	2228	17.5	1	2235	17.5	1	2242	17.5	1	2249	17.5	1	2256	17.5	1	2263	17.5	1	2270	17.5	1	2277	17.5	1	2284	17.5	1	2291	17.5	1	2298	17.5	1	2305	17.5	1	2312	17.5	1	2319	17.5	1	2326	17.5	1	2333	17.5	1	2340	17.5	1	2347	17.5	1	2354	17.5	1	2361	17.5	1	2368	17.5	1	2375	17.5	1	2382	17.5	1	2389	17.5	1	2396	17.5	1	2403	17.5	1	2410	17.5	1	2417	17.5	1	2424	17.5	1	2431	17.5	1	2438	17.5	1	2445	17.5	1	2452	17.5	1	2459	17.5	1	2466	17.5	1	2473	17.5	1	2480	17.5	1	2487	17.5	1	2494	17.5	1	2501	17.5	1	2508	17.5	1	2515	17.5	1	2522	17.5	1	2529	17.5	1	2536	17.5	1	2543	17.5	1	2550	17.5	1	2557	17.5	1	2564	17.5	1	2571	17.5	1	2578	17.5	1	2585	17.5	1	2592	17.5	1	2599	17.5	1	2606	17.5	1	2613	17.5	1	2620	17.5	1	2627	17.5	1	2634	17.5	1	2641	17.5	1	2648	17.5	1	2655	17.5	1	2662	17.5	1	2669	17.5	1	2676	17.5	1	2683	17.5	1	2690	17.5	1	2697	17.5	1	2704	17.5	1	2711	17.5	1	2718	17.5	1	2725	17.5	1	2732	17.5	1	2739	17.5	1	2746	17.5	1	2753	17.5	1	2760	17.5	1	2767	17.5	1	2774	17.5	1	2781	17.5	1	2788	17.5	1	2795	17.5	1	2802	17.5	1	2809	17.5	1	2816	17.5	1	2823	17.5	1	2830	17.5	1	2837	17.5	1	2844	17.5	1	2851	17.5	1	2858	17.5	1	2865	17.5	1	2872	17.5	1	2879	17.5	1	2886	17.5	1	2893	17.5	1	2900	17.5	1	2907	17.5	1	2914	17.5	1	2921	17.5	1	2928	17.5	1	2935	17.5	1	2942	17.5	1	2949	17.5	1	2956	17.5	1	2963	17.5	1	2970	17.5	1	2977	17.5	1	2984	17.5	1	2991	17.5	1	2998	17.5	1	3005	17.5	1	3012	17.5	1	3019	17.5	1	3026	17.5	1	3033	17.5	1	3040	17.5	1	3047	17.5	1	3054	17.5	1	3061	17.5	1	3068	17.5	1	3075	17.5	1	3082	17.5	1	3089	17.5	1	3096	17.5	1	3103	17.5	1	3110	17.5	1	3117	17.5	1	3124	17.5	1	3131	17.5	1	3138	17.5	1	3145	17.5	1	3152	17.5	1	3159	17.5	1	3166	17.5	1	3173	17.5	1	3180	17.5	1	3187	17.5	1	3194	17.5	1	3201	17.5	1	3208	17.5	1	3215	17.5	1	3222	17.5	1	3229	17.5	1	3236	17.5	1	3243	17.5	1	3250	17.5	1	3257	17.5	1	3264	17.5	1	3271	17.5	1	3278	17.5	1	3285	17.5	1	3292	17.5	1	3299	17.5	1	3306	17.5	1	3313	17.5	1	3320	17.5	1	3327	17.5	1	3334	17.5	1	3341	17.5	1	3348	17.5	1	3355	17.5	1	3362	17.5	1	3369	17.5	1	3376	17.5	1	3383	17.5	1	3390	17.5	1	3397	17.5	1	3404	17.5	1	3411	17.5	1	3418	17.5	1	3425	17.5	1	3432	17.5	1	3439	17.5	1	3446	17.5	1	3453	17.5	1	3460	17.5	1	3467	17.5	1	3474	17.5	1	3481	17.5	1	3488	17.5	1	3495	17.5	1	3502	17.5	1	3509	17.5	1	3516	17.5	1	3523	17.5	1	3530	17.5	1	3537	17.5	1	3544	17.5	1	3551	17.5	1	3558	17.5	1	3565	17.5	1	3572	17.5	1	3579	17.5	1	3586	17.5	1	3593	17.5	1	3600	17.5	1	3607	17.5	1	3614	17.5	1	3621	17.5	1	3628	17.5	1	3635	17.5	1	3642	17.5	1	3649	17.5	1	3656	17.5	1	3663	17.5	1	3670	17.5	1	3677	17.5	1	3684	17.5	1	3691	17.5	1	3698	17.5	1	3705	17.5	1	3712	17.5	1	3719	17.5	1	3726	17.5	1	3733	17.5	1	3740	17.5	1	3747	17.5	1	3754	17.5	1	3761	17.5	1	3768	17.5	1	3775	17.5	1	3782	17.5	1	3789	17.5	1	3796	17.5	1	3803	17.5	1	3810	17.5	1	3817	17.5	1	3824	17.5	1	3831	17.5	1	3838	17.5	1	3845	17.5	1	3852	17.5	1	3859	17.5	1	3866	17.5	1	3873	17.5	1	3880	17.5	1	3887	17.5	1	3894	17.5	1	3901	17.5	1	3908	17.5	1	391
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Year	Country	Value	Unit	Year	Country	Value	Unit	Year	Country	Value	Unit	Year	Country	Value	Unit
1971	Cameroon	187	1000	1971	Chad	100	1000	1971	Chad	100	1000	1971	Chad	100	1000
1972	Cameroon	187	1000	1972	Chad	100	1000	1972	Chad	100	1000	1972	Chad	100	1000
1973	Cameroon	187	1000	1973	Chad	100	1000	1973	Chad	100	1000	1973	Chad	100	1000
1974	Cameroon	187	1000	1974	Chad	100	1000	1974	Chad	100	1000	1974	Chad	100	1000
1975	Cameroon	187	1000	1975	Chad	100	1000	1975	Chad	100	1000	1975	Chad	100	1000
1976	Cameroon	187	1000	1976	Chad	100	1000	1976	Chad	100	1000	1976	Chad	100	1000
1977	Cameroon	187	1000	1977	Chad	100	1000	1977	Chad	100	1000	1977	Chad	100	1000
1978	Cameroon	187	1000	1978	Chad	100	1000	1978	Chad	100	1000	1978	Chad	100	1000
1979	Cameroon	187	1000	1979	Chad	100	1000	1979	Chad	100	1000	1979	Chad	100	1000
1980	Cameroon	187	1000	1980	Chad	100	1000	1980	Chad	100	1000	1980	Chad	100	1000
1981	Cameroon	187	1000	1981	Chad	100	1000	1981	Chad	100	1000	1981	Chad	100	1000
1982	Cameroon	187	1000	1982	Chad	100	1000	1982	Chad	100	1000	1982	Chad	100	1000
1983	Cameroon	187	1000	1983	Chad	100	1000	1983	Chad	100	1000	1983	Chad	100	1000
1984	Cameroon	187	1000	1984	Chad	100	1000	1984	Chad	100	1000	1984	Chad	100	1000
1985	Cameroon	187	1000	1985	Chad	100	1000	1985	Chad	100	1000	1985	Chad	100	1000
1986	Cameroon	187	1000	1986	Chad	100	1000	1986	Chad	100	1000	1986	Chad	100	1000
1987	Cameroon	187	1000	1987	Chad	100	1000	1987	Chad	100	1000	1987	Chad	100	1000
1988	Cameroon	187	1000	1988	Chad	100	1000	1988	Chad	100	1000	1988	Chad	100	1000
1989	Cameroon	187	1000	1989	Chad	100	1000	1989	Chad	100	1000	1989	Chad	100	1000
1990	Cameroon	187	1000	1990	Chad	100	1000	1990	Chad	100	1000	1990	Chad	100	1000
1991	Cameroon	187	1000	1991	Chad	100	1000	1991	Chad	100	1000	1991	Chad	100	1000
1992	Cameroon	187	1000	1992	Chad	100	1000	1992	Chad	100	1000	1992	Chad	100	1000
1993	Cameroon	187	1000	1993	Chad	100	1000	1993	Chad	100	1000	1993	Chad	100	1000
1994	Cameroon	187	1000	1994	Chad	100	1000	1994	Chad	100	1000	1994	Chad	100	1000
1995	Cameroon	187	1000	1995	Chad	100	1000	1995	Chad	100	1000	1995	Chad	100	1000
1996	Cameroon	187	1000	1996	Chad	100	1000	1996							

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299	374	376	40
146	25	256	14
146	19	196	36
236	17		
12			
37	164	165	4
27		37	1
276		276	6
636	64	64	46
156	156	156	4
166	166	166	4
14	76	71	1
		18	1
2616		2616	1
2216		2216	1
26		41	1
216		21	1
26		2616	1

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Plessey and Thomson Vie for Big U.S. Army Pact

they need on the high-technology battlefield of the future. There is only one problem: No U.S. company has ever built anything like it.

Two European companies, however, one British and the other French, say they have just what the U.S. Army is looking for.

And they are now vying for what promises to be one of the largest single military orders the Pentagon has ever placed with a foreign company — a \$4.3-billion contract to supply five Army corps, totaling 25 divisions, with what the military calls Mobile Subscriber Equipment, or MSE for short.

Plessey Co., a leading British electronics concern, is offering a battlefield-communications system known as Flarmimg, in partnership with the Collins radio division of Rockwell International of Pittsburgh.

Flarmimg, which is named for an Alpine grouse, costs more than \$200 million to develop. It is now being developed by Britain's First

Army in West Germany, under a \$750-million contract.

Pitted against Plessey is France's nationalized electronics giant, Thomson SA, which has joined forces with CITE Corp.'s Sylvania Division in the United States to sell the Pentagon a rival communications network known as Rita, an acronym for *Reseau Integre des Transmissions Automatique*. Rita is already in service with sections of the French and Belgian armies.

Plessey demonstrated Parmigan for the U.S. Army in trials with British and French troops in the French plan to shroud off Rita this spring. The Pentagon is expected to choose the winner later this year.

More than jobs and money are at stake in the competition. Traditionally, U.S. arms makers and the armed forces have worked together to keep foreign military equipment out of the United States, despite the fact they buy more advanced defense systems and from NATO allies. The allies spend \$10

billions annually on U.S. weaponry but sell little to the United States in return.

Now the communications contract is raising hope in Europe that U.S. attitudes may be changing.

Last year James R. Ambrose, under-secretary of the Army, with the backing of Defense Secretary Caspar W. Weinberger, overrode U.S. electronics companies eager to build a new communications system for the Pentagon. They decided it would be quicker and cheaper to buy developed technology "off the shelf" from Europe.

This decision followed two others—the Marine Corps agreement to buy Britain's vertical-takeoff Harrier fighter and the British Hawk trainer rather than try to build such planes.

"The Pentagon may finally realize it's cheaper to buy somebody else's wheel than continually reinvent the yourself," said a senior Thomson executive who asked to remain anonymous.

Digital Unit To Take Part In EC Project

BRUSSELS — Digital Equipment Corp. said Wednesday that its West German subsidiary, Digital GmbH, will participate with Fiat Comau SpA of Italy and Renault Automation SA of France in a five-year, \$9.5-million research project aimed at making automated systems more compatible.

The project was one of 104 chosen for partial financing by the European Community under its \$1-billion technology research and development program called Enterprise.

Bruno D'Avanzo, vice president for marketing in Europe for Digital, said at a news conference that the EC would provide one-quarter of the financing for the joint project. The rest will come from the

AT&T Seeking Videotex Partners

By Paul Richter
Los Angeles Times Service

NEW YORK—An American Telephone & Telegraph Co. has indicated that it is seeking to form a joint venture to provide videotex banking and other financial services nationally to consumers and small businesses.

AT&T declined Tuesday to identify other possible participants. But several industry sources said that the venture as now discussed would include AT&T and New York's Chemical Bank as principal partners, with Time Inc. and Bank of America holding smaller stakes.

Such a venture would link the two largest home-computer-based banking operations. Chemical Bank's home-banking service was the first in the United States when it was begun in September 1983; it was begun in 1987 by subscribers in 17,000 households, the bank says. Eight other banks operate the Chemical system under a license.

Bell Canada Is to Buy Cable & Wireless Unit

Reuters
LONDON — Cable & Wireless PLC said Wednesday that it has agreed to sell Cable & Wireless U.K. Services, Eurotech BV, Eurotechnica SA and Eurotech Italia SpA to Bell Canada International Ltd. Terms of the agreement were not detailed.
U.K. Services is involved in maintenance of minicomputers, while the other subsidiaries distribute computers.

al other videotex services now in operation, the venture would not offer the news or advertising content that has led to AT&T's definition as "electronic publishing."

For that reason, he said, AT&T would not need to seek an amendment to the federal court order that, in breaking up the telephone company, restricted it from transmitting such information on its own telecommunications system.

Newspaper publishers have been nervous about AT&T's declared interest in videotex.

Spokesmen for Chemical Bank and Time Inc. declined comment. A Bank of America spokesman said only that the bank has "ongoing discussions with a lot of companies about a lot of opportunities."

Videotex services include the Gateway system in Dallas, Mirror Co.'s parent of the Los Angeles Times, and in Miami, the Viewtron system of Viewdata Corp., a unit of Knight-Ridder newspapers.

Beecham Group PLC and Unibond Holdings PLC said they have reached agreement on terms for Beecham's conditional bid which places Unibond's value at about £13.74 million (£15.25 million). Beecham, a British pharmaceuticals and toiletries manufacturer, has offered 45 of its ordinary shares for every 71 of Unibond's, or 225 pence per Unibond share.

Robert Bosch GmbH said that its Robert Bosch Corp. of the United States has acquired a factory in Charleston, South Carolina, where it will make pumps for its automotive mobile fuel injection systems. Bosch gave no financial details or capacity plans.

De Tomaso Industries Inc. of Montclair, New Jersey, said that it has been executed to develop, develop and produce a two-seat sports coupe in Italy for sale to Chrysler Corp. No details of the agreements were disclosed.

Eaton Corp. said it has entered into a license agreement with China that would result in the construction of heavy-duty truck transmissions in China. Eaton said it also will provide technical assistance in China.

Enka AG, a West German textile and steel cord manufacturer, said it expects 1984 group profit to increase 120 percent, to 200 million Deutsche marks (\$62.3 million) on record turnover. Managing board chairman Hans Guenther Zempelin said the board would declare a dividend in April.

General Foods Corp. said that its board has approved the repurchase of as much as 3 million shares, or 6 percent of the total outstanding, in the open market. The packed food manufacturer, based in White Plains, New York, repurchased 4.5 million shares last year.

Hitschi Ltd. said that its West German subsidiaries would increase

monthly production of videotape recorders from 10,000 to 30,000 beginning in November, partly because Japan has agreed to limit VTR exports to the European Community.

R.P. Martin PLC said that talks are taking place with another party that could lead to an offer being made for the London-based money broker. There were no other details.

Matsushita Electric Industrial Co. said it will sell VHS-format videocamera recorders to General Electric Co., North American Philips Corp., Grundig AG and Philips Gloeilampenfabriek NV for sale under each company's name.

Rockwell International Corp., the Pittsburgh-based aerospace company, said that sales in 1985 were expected to increase to more than \$1 billion, in part because of its \$1.65-billion acquisition of Allen-Bradley, an automation equipment manufacturer.

Reuners
PADERBORN, West Germany—Nixdorf Computer AG recorded a 21 percent increase of 21 percent in 1984, boosted by a strong performance in West German and international markets, the company announced Wednesday. It said the year's net profit should be well above 1983 levels.

Nixdorf's results showed world sales of 7.3 billion Deutsche marks (\$1.02 billion), compared with 2.7 billion DM in 1983. The order backlog rose 21 percent, to 3.3 billion DM. Nixdorf attributed the increase in sales to strong results in its banking, retail and small- to medium-size corporate sectors.

Nixdorf gave no profit figures for 1984 and did not issue a forecast for 1985.

The project leader is Fin Comau S.p.A., a unit of the Fiat group and a major producer of industrial robot and other industrial-automation equipment. The French partner, Renault Automation S.p.A., is a unit of the Renault group.

University College of Galway in Ireland and Italy's Turin Polytechnic also are involved in the project.

The basic aim of the project is to design and develop a system to closely link automated production and information technologies.

Paolo Cantarella, managing director and chief operating officer of Comau, said the proposed system would improve productivity in manufacturing and give a boost to Europe's drive to catch up with U.S. and Japanese technology.

It is the only Esprit project that involves Digital, which is based in Maynard, Massachusetts.

The only other U.S. companies in the Esprit are International Business Machines Corp., American Telephone & Telegraph Co. and ITT Corp.

The price of gold has tarnished, abhorring the fantasies of gold bugs and their gurus, among them, the Aden Sisters - the fissure fissures who persistently purr in their investment service that gold will glisten to \$3400 an ounce; a prediction our experts have ridiculed. The Adens are sisters under the skin to promoters of gold seminars, "currency analysts" who make great gobes of paper money, debunking "paper". The distribution of gold from High Priesthood believers in the news has been articulated by C.G.R., a prediction, a promise that will join the ranks of the South Sea Bubble fiascos as evidence of man's culpability and greed. The slide of rationality has destroyed gold bugs; still, there is tomorrow. For once everyone is convinced that gold, a substance the Incas called "The Sweat of the Sun", cannot glitter again, it will. To convince the "Crowd" as to the efficacy of the law of contrary reason, is as difficult as sneaking sunrise past a rooster.

Mea culpa, our readers, we have been "overweight" wrong. "Look for one more sledge hammer blow before a sparring rally occurs." The hammer has decimated thousands of dreamers. Money never moves out of gold or any other commodity, it merely changes pockets. Every analyst and airline attendant has names of gold shakers that, have been pulverized; few appear on "buy lists" for, as always, the "Street" is selling into weakness, wasting every shred of fiscal common sense. As contrarians, we urge investors to stash away AUSA \$47, CAMPBELL, RED LAKES \$16, HOMESTEAK \$21 and WESTERN DEEP LEVELS \$33, emulating the prosaids of "Power Elitists" and other perspicacious iconoclasts who are absorbing, at wholesale levels, the discards of the disenchanted. The scenario in gold is reminiscent of the malaise that infected the "Street" in 1982, when the DOW was mired below 800. At the depths of despair, our researchers mused "THE DOW WILL TOUCH 1,000 BEFORE HITTING 750"; a prophecy that was sustained.

1987? The Aden Sisters are forecasting 1950 and, as a corollary, gold will approach. Our current letter delineates why the "barbarous relic" will regain its lustre; in addition, C.G.R. highlights a low-priced equity that could catapult to prominence, duplicating the success of a recently recommended "special situation" that spiraled 800% in less than a year.

For your complimentary copy, please write to, or telephone:

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(Continued from Page 11)

eventually agreed to be taken over by Batus Inc., yielding Mr. Icahn and his investment partners a profit of about \$33 million on a four-month investment. Tappan was driven into the hands of Electrolux AB of Sweden. In one of his most bitter contests, Dan River was pitted in an employee buyout.

In his most recent venture, he bought ACF Industries, a maker of mixers and oilfield equipment, for more than \$400 million last summer. It was only the second time he had actually acquired a company he was pursuing.

Although takeover specialists are sometimes viewed as being little more than financial muggers, Mr. Icahn is regarded by investment professionals as a master technician and tactician, with an excellent eye for spotting undervalued stocks. In fact, Richard Tappan, who was chairman of the company bearing his family name when Mr. Icahn made his bid, and who resigned last year, became an investor in Mr. Icahn's transactions.

Mr. Icahn sharpened his investment skills in the 1960's at Icahn & Co., a Wall Street brokerage, where he ran the options department. Howard Silverman, a former colleague of Mr. Icahn's and now president of Gruntal, recalled: "He was quite bright, and very aggressive, which isn't a bad combination in this business."

Mr. Icahn decided to move out on his own in 1968, and formed Icahn & Co. Since then, his principal business has been risk arbitrage

— buying into takeover situations started by others — or instigating his own bids.

Such a career seemed an unlikely choice to some of Mr. Icahn's older friends. For example, Dr. Peter S. Liebert, a pediatric surgeon who was Mr. Icahn's undergraduate roommate at Princeton University for two years, remembers Mr. Icahn as generally very easygoing.

"Except when he focused on something, then he could become totally absorbed," Dr. Liebert, who remains a good friend, and has participated in some of Mr. Icahn's transactions, said. "In chess, he would analyze very, very carefully before he moved. There was nothing reckless."

A philosophy major in college, Mr. Icahn attended medical school for two years, then dropped out. Dr. Liebert said that the direction Mr. Icahn chose surprised him. "I would have thought he would have gone on to graduate school in philosophy or economics," he said.

Intellect as well as dogged persistence are said to distinguish Mr. Icahn, and while he is far from being Mr. Icahn often cloaks himself in the rhetoric of being a defender of shareholder rights against an entrenched, inefficient management, one acquaintance recalled Mr. Icahn saying: "I'm no Robin Hood. I'm out to make money."

Mr. Icahn, nonetheless, feels strongly that he is working for all shareholders when he makes his bids, and forces a buyout at a higher price. He says he only pursues companies where management is

(Continued from Page 11)

ret on Wall Street among European investors, at least in Switzerland and Germany.

"I've seen no dramatic buying," he asserted, "and there's not been much excitement so far about Wall Street in this part of the world. In any case, the claim seems to be that the market is selling than buying. The thinking remains defensive and there's a lot of skepticism."

Mr. Nipp, who admitted that he probably was too optimistic in 1984 toward U.S. stocks, said he sees \$300 on the Dow as a psychological barrier that, if surpassed as he expects, will persuade European money managers to "start nibbling" on American equities.

"January was a terrific month to be invested on Wall Street and there will be growing pressure to ride in as prices rise higher," he added.

Despite his positive outlook, Mr. Nipp warned that excessive euphoria toward U.S. stocks could be costly. He advised investment in medium-size, good-quality "blue-chip" stocks such as Gould Inc. and Harris Corp.

The undernamed announces that as from 1.4th February, 1985 at Kas-Associatie N.V., Spuisstraat 172, Amsterdam, div. ep. no. 24 of the C.R.R.s Rothmans International P.L.C. each year, 100 shares, will be payable with Dfls. 8.57 (p interim dividend) on the 8.57 ending 31st March, 1985) 2.20 p per share. Tax credit c. 9428 f on Dfls. 3.76 per CDR.

Non residents of the United Kingdom can only claim this tax credit when the relevant tax treaty meets this facility.

AMSTERDAM DEPOSITORY COMPANY N.V.

Amsterdam, 21st January, 1985.

Gold Options (prices in \$/oz.)

Price	Feb.	May	Aug.
290	1,450-1,600	2,020-2,650	—
300	650-800	17,750-28,000	25,000-70,000
310	210-250	19,100-21,000	18,750-20,750
320	375-175	17,75-175	17,750-15,500
330	100-120	17,750-17,750	17,750-17,750
340	100-625	2,250-4,000	7,100-8,500

GdH 2020 20200

Valcoms White Metal S.A.
1, Quai du Mont-Blanc
1211, Gland 1, Switzerland
Tel. 022 26 20 00

The undersigned announces that as from 14th February, 1985 at Kas-Associatie N.V., Spuiswal 172, Amsterdam, Div. ep. no. 24 of the CDRs Rothmans International P.L.C. each representing 100 shares, will be payable with 0.85 (7/8 p) interim dividend for the year ending 31st March, 1985) 2.20 p per share. Tax credit 5.9428 as N.M. 3.76 p CDR.

Non residents of the United Kingdom can only claim this dividend if they have the relevant tax treaty meets this facility.

AMSTERDAM DEPOSITORY COMPANY N.V.

Amsterdam, 31st January, 1985.

Gold Options (prices in \$/oz.)

Price	Feb	May	Aug.
290	1450-1640	2050-2650	—
300	650-1040	1775-2675	2375-2775
310	1120-1100	1775-2675	1875-2575
320	675-175	1775-2675	1900-1550
330	675-175	1775-2675	1900-1550
340	675-175	250-440	775-875

Gold 2020 20100

Valuers White Well S.A.
1st, Quai de la Mont-Blanc
1211, CHAM, 1, Switzerland
Tel. 021 222 22 22

not maximizing the value of the company's stock.

Mr. Icahn's fast-paced dealing has led to brushes with regulatory authorities.

In late 1981, Mr. Icahn and companies he controlled signed a consent decree with the Securities and Exchange Commission over what the S.E.C. said were failures to make proper disclosures in his bids for Saxon Industries and Hammermill Paper Co.



CORT Tel: 71 58	MUNICH HELSERS Escort + Guide Service. Tel: 0097/446030	BURGHARDH ANITA ESCORT Ser- vice. Tel: 001 485 7384
EST Tel: 374	VINENIA - GENIEE ESCORT Service. Tel: 52-30-355.	DOWHILL JAMIE GENIEE ESCORT Ser- vice. Tel: 022 131 2673.
RY SERVICE Tel: 31 49 87	LONDON LISA ESCORT SERVICE Tel: 020 655	MADRID IMPACT ESCORT + Guide Service, Mullingspark, 261 41 42.
WEST Tel: 374	FRANKFURT GENIEE ESCORT Ser- vice. Tel: 0097-68 34 42.	HOLLAND JIM GENIEE ESCORT Tel: 022785, 001 444330, 02977 3465.
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CORT + trav- el Tel: 72 10	FRANKFURT ADIA ISABELLE'S Escor- t & Travel Service. 0097 62 88 05.	VIRGINIA VIP ESCORT SERVICE Tel: (Wien) 65 41 58

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SPORTS

Roffe of U.S. Captures Women's Giant Slalom

SANTA CATERINA, Italy — Danni Roffe raced a daring second run to score a sensational victory Wednesday in the women's giant slalom and give the United States its first gold medal at the world Alpine ski championships.

Roffe, 17, was fifth after her first-run time of 1 minute, 9.18 seconds, but clocked a blistering 1:09.35 in her second for an aggregate of 2:18.53. Elisabeth Kirchler of Austria won the silver medal in 2:19.13. Americans Eva Twardochleb (2:19.21) and Debbie Armstrong (2:19.26) were third and fourth.

Marina Kiehl of West Germany, third after the first run, made mistakes on the second and dropped to fifth place in final standings with a time of 2:19.60.

Said Twardochleb, 19: "I think we have a very competitive giant slalom team." It's her first overall World Cup giant slalom victory. Twardochleb, who won the 1983-84 U.S. national title, finished second in the final of Wednesday's first run after clocking the second-fastest intermediate time.

Roffe is still a member of the U.S. "B" team, her previous best having been an eighth place in a World Cup giant slalom in Lake Placid, New York, last year.

She clocked the fastest time in the second run on the Cevalde



Danni Roffe: 'I didn't have anything to lose, and I just let one rip.'

course, beating Kirchler by a substantial .77 seconds. The second course, set by an Austrian coach, had 48 gates and a vertical drop of 343 meters (1,125 feet). The 48-gate first course was set by the U.S. coach, Brad Ghent.

"It was just a matter of getting in there and nailing it," said a jubilant Roffe after the race. "Both courses were great — they skied really well. On the second run I knew I didn't have anything to lose, and I just let one rip. I'm so happy — I can't really believe it's happened."

Roffe placed second in the first run of a World Cup race on the same track before Christmas, only to drop down in the second leg. "I had never got two runs together before today, but I knew it was only a matter of time," she said.

It was a disastrous day for the powerful Swiss team, which had won each of the four previous events. The top finisher was Maria Walliser in eighth, 19 seconds behind Roffe. Erika Hess, who won the combined title Monday, finished 11th; Vreni Schneider was 12th and downhill champion Michela Figini 15th. (AP, UPI)

Bossy Hits 40-Goal Mark Eighth Consecutive Year

UNIONDALE, New York — Even before the New York Islanders lost their stranglehold on the National Hockey League title last spring, there had been whispers: The four-time champions were getting old, had lost their intensity, were no longer hungry.

As the start of the 1984-85 season, the team New York Islanders — the Philadelphia Flyers — temporarily took the Patrick Division

with regularity yet (they're still in third place in their division behind Washington and Philadelphia), they also know they are late bloomers.

The Islanders alarm clock seems permanently set on Stanley Cup Time. "Late February, early March," Tonnelli figures a surge will come. "That's the way we've done it for five, six years."

Maybe that means nothing, but the stretch run does coincide with the expected return of injured players, including perennial playoff performer Ken Morrow on defense.



Mike Bossy — 'I'm supposed to be scoring goals — it's my job to score goals.'

NHL FOCUS

lead and again the tangles were wagging: The Flyers are young and enthusiastic; they rally.

But Tuesday night the Islanders' wounded pride and injury-riddled roster beat the Flyers, 7-5, as Mike Bossy scored his 40th goal of the year and added four assists.

Elsewhere in the NHL, Montreal 2, Washington 4, Toronto 1, and Los Angeles 7, the New York Rangers 5.

To withstand Ilkka Sinisalo's four-goal second period rally, the Islanders needed a four-goal period of their own in the first, a fluke bounce off Brent Suter's chest for the game-winner in the second and Sinisalo's disallowed fourth goal in the third.

"We survived tonight," said John Tonnelli who registered his 29th goal and three assists in the shootout.

"Not so impressively — we killed the big lead — but when the time came to do it, we did it."

Bossy became the first NHL player ever to put together eight consecutive 40-goal seasons. But what the sharp-shooting right wing liked most about the goal was that it came at all.

After a rocket start this season, Bossy fell off his usual pace, and his reaction to the record mirrored his teammates' feelings about the victory — happy, yes; impressed, no.

"I haven't been scoring," he said. "The goalies have been making saves or I've been hitting the post or going wide."

For Bossy, 40 has always been just a number on the way to No. 50 and beyond. He has 27 games to make it 50 or more goals in each of his eight campaigns. "I hope I can do it," he said. "But I'm supposed to be scoring goals — it's my job to score goals."

And it has been the Islanders' job to win. That hasn't happened

SCOREBOARD

Tuesday's was the Islanders' second victory in a row since Coach Al Arbour cheered them out following a 3-2 loss to the New Jersey Devils. Against Pittsburgh Saturday night, New York scored twice in the first 10 minutes.

Against the Flyers, they scored four times in the first period, with Bossy assisting on three of the goals.

Bossy got No. 40 at 8:26 of the second period before the Flyers battled back to tie, 5-5.

He picked up his fourth assist when Flyer goalie Darren Jensen bobbled his slapshot and Brent Sutter converted after the puck bounced off his chest for a 6-5 lead at 15:51.

A first-period tally brought Dennis Potvin's career total to 250, the second-highest ever for an NHL defenseman. The Boston Bruins' Bobby Orr had 270. (UPI, LAT)



Mike Bossy

... I'm supposed to be scoring goals — it's my job to score goals.

